The Narragansett Electric Company
d/b/a National Grid

2014 GAS COST RECOVERY

Testimony and Attachments of:

Elizabeth D. Arangio
Ann E. Leary

September 2, 2014

Submitted to:

Rhode Island Public Utilities Commission
RIPUC Docket No. 4520

Submitted by:

nationalgrid

Testimony of
Elizabeth D. Arangio

DIRECT TESTIMONY

OF

ELIZABETH D. ARANGIO

September 2, 2014

Table of Contents

I. Introduction

Q. Please state your name and business address.

A. My name is Elizabeth Danehy Arangio. My business address is 40 Sylvan Road, Waltham, Massachusetts 02451.

Q. What is your position and responsibilities?

A. I am the Director of Gas Supply Planning with responsibility for the resource portfolio of the New England local gas distribution companies (LDC's) that operate as Boston Gas Company (Boston Gas), Colonial Gas Company (Colonial) and The Narragansett Electric Company (Narragansett or Company) each d/b/a National Grid. In addition to the New England portfolios, I am also responsible for gas supply planning for the resource portfolios of The Brooklyn Union Gas Company, KeySpan Gas East Corporation and Niagara Mohawk Power Corporation, all in New York. For purposes of this testimony, references to the Company relate solely to The Narragansett Electric Company.

Q. Please describe your educational background and professional experience.

A. I graduated from the University of Massachusetts in 1991 with a Bachelor of Business Administration. In 1995, I graduated from Bentley College with a Master of Business Administration. From 1991 to 1994, I worked as a Gas Accounting Analyst in the Marketing Operations Department at Algonquin Gas

Transmission Company. In 1994, I joined Boston Gas Company as a Gas Supply Analyst. In 1997, I was promoted to Group Leader Transportation Services, with responsibility for managing all activities associated with the Customer-Choice program. In 1998, I was promoted to Director of Gas Acquisition and Transportation Services with responsibility for the administration of the Company's gas-resource portfolio and Customer-Choice program in Massachusetts and, as of 2000, the resource portfolio of EnergyNorth Natural Gas, Inc in New Hampshire. In February 2004, I assumed the additional responsibility of gas supply planning for the former KeySpan Corporation New York and Long Island resource portfolios. Following the acquisition of KeySpan Corporation by National Grid, plc, I was named to my current position with the added responsibility for the National Grid gas resource portfolios in upstate New York and in Rhode Island.

Q. Are you a member of any professional organizations?

A. I am a member of the Northeast Gas Association and the New England-Canada Business Council.

Q. Have you previously testified before the Rhode Island Public Utilities Commission (PUC)?

A. Yes. I have recently testified before the Rhode Island Public Utilities Commission (PUC) in support of National Grid's Annual Gas Cost Recovery (GCR) and the interim 2013/2014 Gas Recovery Filing (Interim GCR) in Docket No. 4436, the Natural Gas Portfolio Management Plan (NGPMP) in Docket No. 4038, and the Long Range Gas Supply plan. In the past, I have testified numerous times before the Massachusetts Department of Public Utilities, and the New Hampshire Public Utilities Commission. In addition I have also presented information to the State of New York Department of Public Service Commission.

Q. What is the purpose of your testimony in this proceeding?

A. My testimony provides support for the estimated gas costs, assignments of pipeline capacity to marketers and other issues relating to the Company's proposed Gas Cost Recovery (GCR) factors. In addition, my testimony provides a summary of the Company's plans to enter into a Precedent Agreement with Tennessee Gas Pipeline Company, L.L.C. (Tennessee) for interstate pipeline capacity delivered to Rhode Island as part of the Tennessee Northeast Energy Direct Project.

Q. Are you sponsoring any Attachments?

A. Yes. I am sponsoring the following Attachments:

EDA-1	Summary of Projected Gas Costs **CONFIDENTIAL Information**
EDA-2	Gas Cost Details **CONFIDENTIAL Information**
EDA-3	NYMEX Strip Comparison
EDA-4	Assignment of Pipeline Capacity **CONFIDENTIAL Information**
EDA-5	FT-2 Operational Parameters
EDA-6	FT-2 Storage Variable Costs

II. <u>Projected Gas Costs</u>

Q. What commodity prices were used to develop the proposed GCR factors?

A. In terms of commodity prices, the proposed GCR factors are based on the following: (1) the NYMEX strip as of the close of trading on July 31, 2014, (2)the expected basis differential to the Henry Hub for each purchase location, and (3) the difference between the futures contract purchases under the Gas Procurement Incentive Plan (GPIP) as of July 31, 2014 and the July 31, 2014 NYMEX strip. The GCR factors also reflect storage and inventory costs as of July 31, 2014, as well as the projected cost of purchasing gas ratably through the remainder of the injection season, as provided for in the NGPMP. Attachment EDA-1 provides a summary of gas costs by major cost categories. Attachment EDA-2 shows the details of the calculations including the cost detail by supply source and the cost impact of financial hedges.

Q. Overall, what are the NYMEX prices for gas supplies projected to be purchased during the period of November 1, 2014 through October 31, 2015, and how do they compare to last year's prices?

A. Attachment EDA-3 is a graph that compares NYMEX pricing from July15, 2013 utilized in the Company's filing last year to NYMEX pricing from July 31, 2014 used in this instant filing. The July 31, 2014 NYMEX strip is on average $0.082, or 2.1%, higher compared to the July 15, 2013 NYMEX strip during the peak season of November through March. During the off-peak season of April through October, the July 31, 2014 NYMEX strip is on average $0.170, or 4.3% lower compared to the July 15, 2013 NYMEX strip. Overall the July 31, 2014 NYMEX strip is an average of $0.065 or 1.6% lower compared to the July 15, 2013 NYMEX strip.

Q. Please describe how gas costs are calculated.

A. Consistent with prior filings, projected gas costs are calculated using the SENDOUT model to perform a dispatch optimization of the Company's entire portfolio of gas supply, pipeline transportation, underground storage, and peaking supplies. The model uses commodity price, pipeline contract, and storage information to determine the dispatch of supplies to minimize the cost of supply over the year. The pricing of various pipeline services is based directly on the pipeline tariffs and the rates in effect as of August 1, 2014. For purchases at locations other than the Henry Hub, the model uses the expected basis differential to the Henry Hub prices to determine the expected difference or "basis."

Q. How did the Company categorize the projected gas cost components?

A. For the purpose of this filing gas costs are disaggregated into two components: (1) The Supply Fixed Cost Component and (2) The Supply Variable Cost Component. Each is described below.

1. The Supply Fixed Cost Component includes all fixed costs related to the purchase, storage, or delivery of firm gas, including, but not limited to, pipeline and supplier fixed reservation costs, demand charges, and transportation fees.
2. The Supply Variable Cost Component includes all variable costs of firm gas, including, but not limited to, commodity costs, taxes on commodity and other gas supply expense incurred to transport supplies, transportation fees, storage commodity costs, taxes on storage commodity, and other gas storage expense incurred to transport supplies, transportation fees, and inventory commodity costs.

A summary of gas costs included in the GCR and disaggregated into these cost components by month for the period November 2014 through October 2015 is shown on Attachment EDA-1.

Q. Please describe Attachment EDA-2, pages 1 through 17.

A. Attachment EDA-2 shows the supporting detail for gas costs included in the filing for the period November 2014 through October 2015. The first two pages show the optimized, forecasted sendout by supply source under normal weather from the SENDOUT model, as well as the detailed makeup of supply by pipeline source, storage contract, and peaking facility. The next section, pages 3 through 6, shows the calculation of the per-unit-delivered cost for each pipeline path based on the July 31, 2014 NYMEX strip and purchase point basis, including both pipeline variable charges and pipeline fuel losses. Pages 7 through 9 show the calculation of the delivered cost for each path (the price times the quantity). Pages 10 through 14 show the detailed calculation of total fixed costs.

The cost details for gas injected into and withdrawn from underground storage are shown on pages 15 and 16, while all costs associated with LNG injected into and withdrawn from storage are detailed on page 17. As the Company has yet to contract for LNG supplies for the upcoming 2014/15 year, pricing included in this filing reflects indicative pricing and terms based on the Company’s current contracts with GDF Suez. Charges for the GDF Suez Gas North America contracts have been redacted in the public version of the filing in order to comply with confidentiality terms.

Q. How do you calculate the delivered cost for a particular gas supply?

A. On Attachment EDA-2, page 3, the second supply source shown is gas purchased on Tennessee Pipeline in Zone 0, located in South Texas. The calculation for November begins with the $3.925 NYMEX price, which is then adjusted for basis by subtracting $0.117 in this case. This reflects the forward basis strip for gas supply in South Texas delivered into Tennessee Pipeline. Next the price is adjusted to reflect the fuel retention percentage of the pipeline, 4.63%, to bring the price to $3.993. That adjustment is made by dividing the price by one minus the loss factor, or 0.9537, effectively adjusting the commodity price to incorporate the fact that only 95.37% of the supply delivered from the pipeline in South Texas will be delivered to Rhode Island. The pipeline usage fee of 33.59 cents is then added to reflect the cost of transportation on the pipeline, resulting in a delivered cost of $4.3288 per Dth.

III. Marketer Capacity Assignment

Q. What transportation paths will be available for assignment to marketers?

A. Attachment EDA-4, page 1, shows the paths and corresponding quantities available for assignment to marketers. In total, the Company has made available 32,758 Dth per day of capacity on six different pipeline paths. The volume allocated to the marketers remains the same as provided in the 2013/14 GCR filing.

Q. Please explain the surcharge/credit calculation for each assigned pipeline path?

A. The first step in calculating the adjustment charge for each path starts with calculating the system-average cost. The derivation of the weighted-average pipeline path cost of $0.4080 per Dth is shown at Attachment EDA-4, page 10. This cost is equal to the sum of the 100% load factor fixed-cost unit value, the system-average unit variable cost (including basis differential) and one (1) year of the marketer reconciliation adjustment represented as a 100% load factor per unit cost. The 100% load factor fixed-cost unit value is $0.5553 per Dth. The system-average pipeline unit variable cost is -$0.1545 per Dth. The sum of these components results in a weighted average pipeline cost of $0.4008 per Dth. The 100% load factor per unit cost of $0.0072 for the marketer reconciliation adjustment is then added to get the total weighted-average pipeline cost of $0.4080 per Dth.

Q. Please explain how Attachment EDA-4 illustrates the delivered costs for each path released to marketers.

A. The calculations for the delivered cost for each path are similar to those described for the system average. For illustration, the calculation for the first path (Tennessee Zone 1, shown on Attachment EDA-4, page 6) is comprised of a single contract originating in Zone 1 and terminating in Zone 6. Total fixed costs of $2,515,057 and total variable costs of $14,798,176 are shown in the far right column of page 6 of Attachment EDA-4. Commodity gas costs of $13,471,608 are subtracted from the total variable costs to arrive at the non-gas variable costs, which include pipeline variable charges and any basis differential associated with the path. The cost of the path equals the sum of the fixed unit cost of $0.7253 per Dth at 100% load factor plus the non-gas variable unit cost of $0.3826 per Dth, or $1.1079 per Dth. The unit cost of $1.1079 per Dth represents the direct costs incurred by the marketer, which are paid directly to the pipeline by the marketer. Since this cost is $0.6999 per Dth greater than the system-average, marketers electing this path would be credited $0.6999 per Dth per day on their monthly invoice from the Company. A summary of the individual path costs and associated credits or surcharges, for which approval is sought, is shown on page 1 of Attachment EDA-4.

IV. Gas Supply Portfolio

Q. Have there been any changes to the Company's interstate pipeline capacity?

A. Yes. The Company has provided a notice of termination effective October 30, 2014 to Transcontinental Gas Pipeline Company (Transco) for contract #9081765. This contract for 141 Dths per day of capacity provided access to supplies from the Gulf of Mexico delivered to the Leidy, Pennsylvania interconnect with Dominion Gas Transmission, which, in turn, feeds the Company's downstream Texas Eastern contract #330844 and Algonquin contract #90106. The marketplace has evolved such that gas is readily available downstream of Transco at competitive pricing so that it is no longer necessary to maintain this Transco contract and incur approximately $25,000 of annual fixed charges.

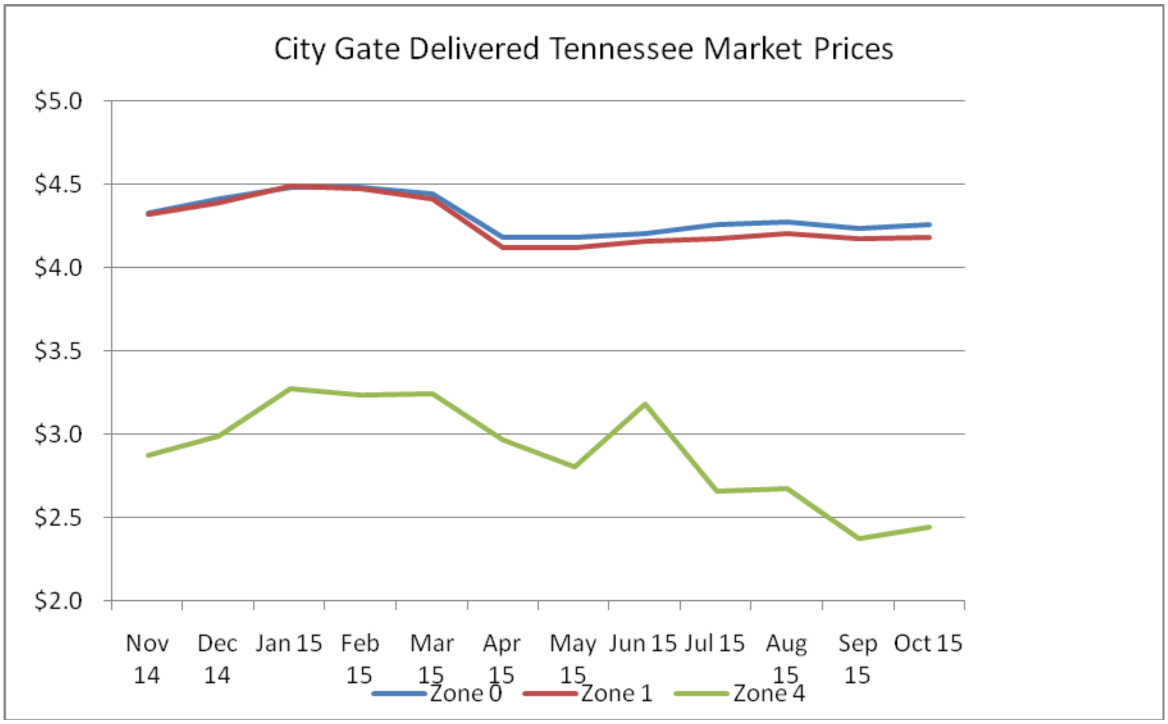
Q. Have there been any changes to the way in which the Company purchases gas?

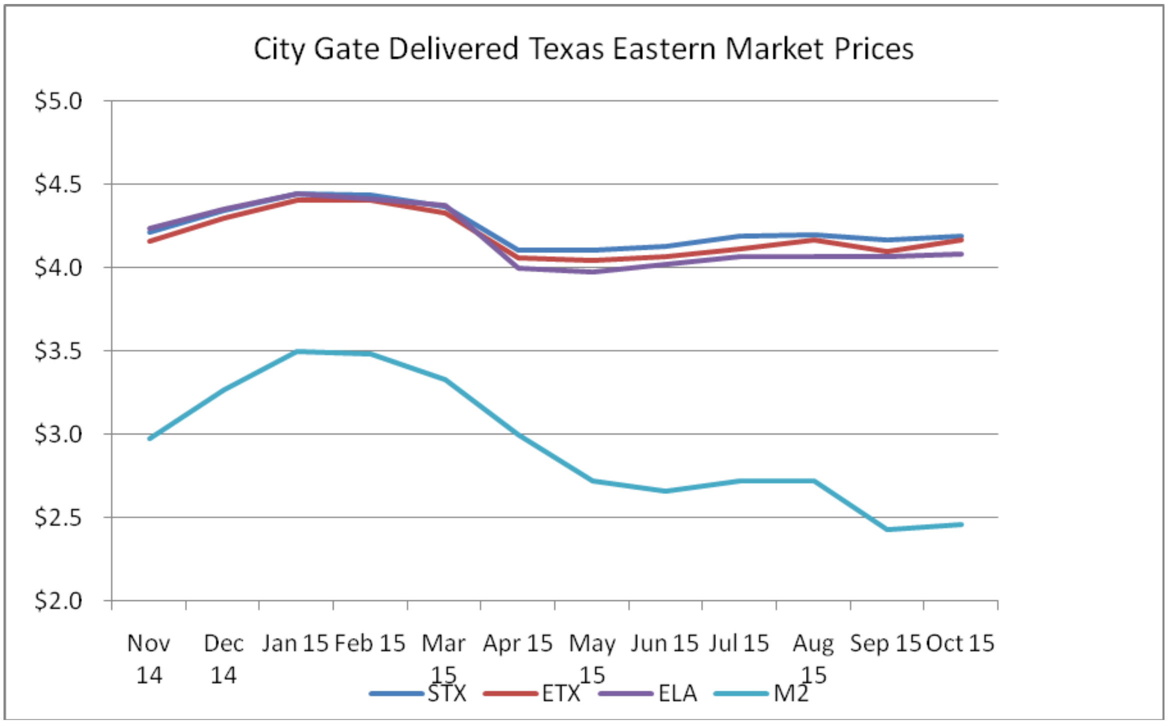
A. Yes. To date, there have been a significant number of projects that have gone into service bringing domestic shale gas from the Marcellus region to market. Construction of gathering systems by producers continues, with the additional production creating more liquidity in the Marcellus and Utica shale basins. The Company's portfolio continues to be situated to take advantage of these opportunities to purchase economically-priced Marcellus/Utica producing region supplies on existing short-haul or long-haul capacity or competitively priced supply from the Gulf of Mexico (GOM) on existing long-haul capacity.

Historically, the Company was able to purchase least-cost gas from the GOM utilizing its Tennessee Gas Pipeline (Tennessee) and Texas Eastern Gas Transmission Company (Texas Eastern) long-haul contracts. With less expensive Marcellus area prices available, at liquid points downstream of the GOM points, the Company is now able to purchase less expensive supplies at the Texas Eastern Market Area 2 (M2) point delivered to the Company's city gates on Algonquin Gas Transmission (Algonquin), as well as the Tennessee Zone 4 (Zone 4) point using existing pipeline contracts previously used to purchase GOM supplies. The Company can make these less-expensive supply purchases without incurring any additional fixed costs. Page 1 of Attachment EDA-2 includes forecasted purchases from the M2 and Zone 4 points for this GCR period. By including these points in the gas cost forecast, the Company is aligning its forecasted gas costs with the actual purchase point location as included in the Company's NGPMP.

Below are two graphs depicting city gate delivered pricing from Attachment EDA-2, pages 3 and 4, for supply points on both Tennessee and Texas Eastern. The first graph shows city gate delivered costs for gas purchased in Tennessee

Zone 4 as compared to city gate delivered cost for gas purchased in Tennessee Zone 0 and Zone 1. The second graph shows city gate delivered costs for gas purchased in Texas Eastern M2 as compared to city gate delivered costs for gas purchased from South Texas (STX), East Texas (ETX), and East Louisiana (ELA) supply points. As demonstrated, the forecasted city gate delivered costs for Tennessee Zone 4 and Texas Eastern M2 are significantly less expensive than their corresponding GOM supply points during the November 2014 through October 2015 GCR period.





Q. **How did the Company supply the Dawn capacity for the 2014/15 year?**

A. The Company has a total firm capacity entitlement of 1,025 Dths/day on the Union Gas pipeline system. The capacity path originates at Dawn, Ontario Canada and delivers into TransCanada at Parkway. In addition, the Company has firm capacity entitlements of 1,012 Dths/day on the TransCanada pipeline system. This capacity path originates at the interconnection with Union Gas at Parkway and delivers into Iroquois Gas Transmission (Iroquois) at Waddington, New York. This supply is delivered to the Company's distribution system on the

Company's existing transportation contracts on Iroquois and Tennessee Gas Pipeline (Tennessee).

The Company issued a Request for Proposal (RFP) on May 30, 2014 for an Asset Management Agreement (AMA), similar to the RFP issued last year, to be effective November 1, 2014 for a term of one year. The RFP requested a maximum daily quantity (MDQ) of 1,025Dth/day of baseload for the months of November 2014 through March 2015. Cargill Limited (Cargill) was awarded the bid to manage the Canadian assets and provide the Company with supply at the Canadian-US border at Waddington, New York. These supplies will then be transported on the Company's Iroquois and Tennessee transportation capacity to the Company's city gates.

Q. What are the Company's plans to supply the "East-to-West" capacity for 2014/15 year?

A. The Company issued an RFP on July 25, 2014 for an AMA, similar to the RFP issued last year, to be effective November 1, 2014, for a term of one year. Utilizing the SENDOUT® Model, the Company determined the appropriate resource mix and established the baseload and swing volume requirements by month. In the RFP, the Company requested a maximum daily quantity (MDQ) of 10,000 Dth/day, the contractual MDQ under the Algonquin contract, with both a baseload and swing component for the months of November 2014through May 2015and for the month of October 2015.Table 1below provides a description of the monthly baseload and swing quantities requested.

TABLE 1

Month	Daily Base-Load Quantity (dt/Day)	Maximum Daily Call Quantity (dt/Day)	Maximum Monthly Quantity (dt)
November 2013		10,000	200,000
December 2013	3,000	7,000	177,000
January 2014	3,000	7,000	226,000
February 2014	3,000	7,000	182,000
March 2014		10,000	200,000
April 2014		10,000	200,000
May 2014		3,000	39,000
June 2014		0	0
July 2014		0	0
August 2014		0	0
September 2014		0	0
October 2014		10,000	200,000

Subject to satisfying the gas supply requirements associated with the AMA, the seller has the right to utilize and optimize the transportation agreement. In exchange, the seller pays the Company an optimization fee. Emera Energy (Emera) was awarded the bid to manage the assets and provide supplies for the 2014/15 season.

Q. Why did the Company issue an RFP for supply for the Algonquin Hubline path for 2014/15 peak season?

A. The Company issued an RFP for supply for the Algonquin HubLine path for the 2014/15 peak in order to secure the volumes needed prior to the start of the winter season. The HubLine capacity originates at an ill-liquid point, Beverly, MA, which is the interconnect between Algonquin and the Maritimes and Northeast Pipeline. Limited supply is available from this point and given the need for volumes in order to meet customer requirements, the Company issued an RFP on July 25, 2014to purchase gas for a term of three months (December, January, and February). Utilizing the SENDOUT® Model, the Company determined the appropriate resource mix and established the required volume for the term in the event of design weather. The RFP requested a maximum daily quantity (MDQ) of 8,000 Dth/day, the maximum daily quantity (MDQ) of the Algonquin transportation agreement, with a maximum seasonal quantity 160,000 Dths. Emera was awarded the bid to provide the Company with supply at Beverly, MA.

Q. Why did the Company issue an RFP for supply for the Dracut Tennessee Path for 2014/15 peak season?

A. The Company issued an RFP for supply for the Dracut Tennessee path for the 2014/15 peak season for the same reason as discussed above for Beverly, MA. Limited supply is available from this point and given the need for volumes at

Dracut in order to meet customer requirements, the Company issued an RFP on July 25, 2014 to purchase supply at Dracut for a term of four months (December, January, February, and March). Utilizing the SENDOUT® Model, the Company determined the appropriate resource mix and established the required volume for the term in the event of design weather. The RFP requested a maximum daily quantity (MDQ) of 15,000 Dth/day, the MDQ of the Algonquin transportation agreement, with a maximum seasonal quantity of 900,000 Dths. The Company accepted and awarded the bid for the total supply package. The winning bidder was BP Energy (BP). The supply agreement with BPalso provides for an alternate delivery point at the Company's city gates.

Q. Has the Company entered into an arrangement for firm liquid service for the 2014 off-peak refill season?

A. Yes, to date, the Company has entered into two arrangements for liquid service for the 2014 off-peak refill season. On March 7, 2014, the Company submitted a request to GDF Suez Gas NA LLC (GDF Suez) for 6.8 BCF on behalf of National Grid's New England companies: Boston Gas Company, Colonial Gas Company and Narragansett. In fact, for the second year in a row, GDF Suez limited the volume and provided only 6.1 BCF to be delivered during the 2014 off-peak refill season. The delivery was offered on a firm basis to the Company for the months of April 2014 through November2014. GDF Suez allocated the 6.1 BCF among the three New England companies to avoid any credit triggers, thereby, avoiding the need for any one of the companies to post collateral. The purchase price is identical in each of the agreements with GDF Suez. Following the execution of the agreements with GDF Suez, the three companies executed affiliate agreements which allow each LDC to buy and sell liquid amongst the three entities at the same cost as in the underlying GDF Suez agreement.

As it has in previous years, the Company issued an RFP on March 14, 2014 for dedicated trucking arrangements in order to guarantee the availability of both trailers and drivers to truck the LNG from the GDF Suez terminal located in Everett, Massachusetts to National Grid LNG facilities during the off-peak season. Traditionally, the Company has entered into a peak season LNG refill agreement with an annual contract quantity of 125,000 Dths. At this time, this agreement has not been secured.

Q. Please describe the allocations of firm liquid service to National Grid.

A. The 6.1 BCF from GDF Suez was allocated between the Massachusetts and Rhode Island companies based upon the LNG refill requirements for the 2014 off-peak season. The allocation provides for 87.42%percent of LNG volumes to Massachusetts and 12.58% percent of LNG volumes to Rhode Island. Because the Company's refill requirement of 857,000 Dth exceeded the amount of liquid allocated to Rhode Island from GDF Suez, and because as of April 1, 2014, GDF Suez would not guarantee the delivery of any additional volumes during the 2014 off-peak refill season, the Company sought to secure additional liquid supplies in the marketplace.

On April 23, 2014, GDF Suez offered an additional 300,000 Dths to National Grid to be taken only during the month of May 2014. Deliveries commenced the week of May 1, 2014 with primary delivery to the National Grid LNG facilities on behalf of Massachusetts and Rhode Island using the same allocation as the original GDF Suez volumes.

In early June 2014, the Company was able to purchase an additional 72,000 Dths from Gulf Oil Limited Partnership (Gulf Oil) for LNG volumes available from Philadelphia Gas Works located in Philadelphia, Pennsylvania to delivery during the months of July 2014 through October 2014. These volumes are being delivered by Gulf Oil to the National Grid LNG (NGLNG) facility in Providence, RI on behalf of Massachusetts and Rhode Island using the same allocation as the GDF Suez volumes.

On August14, 2014, GDF Suez offered an additional 200,000 Dths to the Company to be taken during the month of September 2014. Deliveries will commence the week of September 1, 2014 with primary delivery to the National Grid LNG facilities on behalf of Massachusetts and Rhode Island using the same allocation method as the original GDF Suez volumes.

Q. **What is the Company doing to address long-term portfolio risks?**

A. To address the changing gas supply landscape and to ensure the Company's ability to continue to reliably serve its existing customer requirements, National Grid has employed a two-pronged approach to address the long-term reliability of its gas supply portfolio, considering incremental pipeline capacity, and long-term LNG solutions, and liquefaction projects.

First, with respect to pipeline capacity, the Company has elected to participate in the Algonquin Incremental Market Expansion (AIM Project) and has executed a Precedent Agreement. In addition, the Company has been in negotiations with Tennessee for participation in the Northeast Energy Direct Project as well as Algonquin regarding the Atlantic Bridge Project.

Second, with respect to long-term LNG options and the continued limited availability of LNG in the region, the Company has continued its participation in the LNG Consortium with other New England LDCs and Municipals. The main objectives of the LNG Consortium are: (1) to find more sources of liquid and (2) balance supply with price and diversity of sources. The LNG Consortium has met with a number of parties interested in serving the New England LNG market, either through existing facilities, expansion of existing facilities or construction of new facilities.

In addition to participation in the LNG Consortium, the Company is also continuing to pursue its own liquefaction opportunities. Development of on-system liquefaction will enable the Company to reduce its reliance on imported LNG.

Q. Please provide an overview of the AIM Project?

A. As previously described in Docket No. 4436, National Grid has participated in the AIM Open Season, and has entered into a Precedent Agreement with Algonquin for a fifteen-year term and an expected in-service date of November 1, 2016. The AIM Project is a 342,000 dt/day expansion of Algonquin’s interstate pipeline running from the New York and New Jersey area to major markets in Connecticut, Rhode Island, and Massachusetts. The AIM Project will provide customers in these markets with access to the gas supplies from the Marcellus Shale region in Northeastern Pennsylvania and several other storage fields and interstate pipelines via the Millennium Pipeline at the existing interconnection at Ramapo, NY. The project will also provide access to supplies available on the

Iroquois Gas Transmission System which interconnects with Algonquin at Brookfield, Connecticut.

Q. Please provide an overview of the Tennessee Gas Pipeline Northeast Direct Project?

A. The Tennessee Gas Pipeline Northeast Energy Direct project has capacity scalable from approximately 650,000 Dth/d to 1.2 Bcf/d, or ultimately up to 2.2 Bcf/d, depending on final customer commitments. The pipeline capacity will include a combination of new pipeline, existing pipeline, additional pipeline loops, new compressor stations, station modifications, and metering and measurement equipment from Wright, New York to Dracut, Massachusetts, as well as new and existing city gates on Tennessee. Subject to receiving sufficient commitments for capacity, as well as regulatory approval, the project is expected to begin service in November 2018. The Company expects to reach agreement with Tennessee and execute Precedent Agreements in the fourth quarter of 2014.

Q. Please provide an overview of the Algonquin Atlantic Bridge Project?

The Algonquin Atlantic Bridge Project is a proposed expansion of the Algonquin and Maritimes systems, and will connect abundant North American natural gas supplies with markets in the New England states and the Maritime Provinces. Atlantic Bridge recently completed an open season for customers to submit requests for additional natural gas service with a targeted in-service date of November 2017.

Q. Are there any other contract charges affecting the supply portfolio and gas costs?

A. No.

V. Directives from 2013/14 GCR

Q. Has the Company consulted with the Division of Public Utilities and Carriers (Division) regarding a review of issues related to the Company's Customer Choice program as directed by the PUC in Docket No. 4436?

A. Yes, the Company has been engaging in discussions with the Division and their consultant, Bruce Oliver, on a monthly basis, and has filed status reports with the PUC regarding the Company's review of the issues related to its Customer Choice program. The Company's last status report was filed on August 28, 2014.

Q. Is the Company making any recommendations regarding its Customer Choice program as a result of that review?

A. Yes. As indicated in the Company's August 28, 2014 status report, the Company will be filing a request with the PUC following its GCR filing to implement certain specific short-term operational changes to the terms and conditions of its existing Customer Choice program and the applicable gas tariff. Additionally, the Company will be proposing a collaborative working group to review and recommend comprehensive changes to the Customer Choice program for implementation over the longer-term.

Q. Does this conclude your testimony?

A. Yes, it does.

Attachments of Elizabeth D. Arangio

EDA-1	Summary of Projected Gas Costs - **CONFIDENTIAL Information**
EDA-2	Gas Cost Details - **CONFIDENTIAL Information**
EDA-3	NYMEX Strip Comparison
EDA-4	Assignment of Pipeline Capacity - **CONFIDENTIAL Information**
EDA-5	FT-2 Operational Parameters
EDA-6	FT-2 Storage Variable Costs

Attachment EDA-1

EDA-1 Summary of Projected Gas Costs - **REDACTED Information**

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-1
Redacted
September 2, 2014
Page 1 of 1

REDACTED VERSION

SUMMARY OF ESTIMATED GAS COSTS FOR 2014-2015 GCR

07/31/2014 NYMEX

Variable Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	GCR TOTAL
Total Pipeline Supply Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$6,392,579	$3,532,827	$2,580,903	$1,995,441	$1,892,137	$1,743,621	$3,211,062	$90,793,759
Total Storage Product Costs	$730,579	$2,952,121	$3,241,654	$2,994,928	$2,715,510	$39,125	$2,182	$0	$0	$0	$0	$0	$12,676,100
Total Storage Delivery Costs	$30,844	$170,228	$182,144	$168,262	$153,958	$1,885	$26	$0	$0	$0	$0	$0	$707,346
Total LNG Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Total All Variable Gas Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Fixed Costs													
Total Pipeline Demands	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Total Storage Facilities	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Total Storage Delivery	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$435,155	$5,221,856
Total Supplier Demands	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Total All Fixed Costs	$3,728,760	$3,967,301	$3,965,962	$3,964,338	$3,832,962	$4,443,483	$4,444,024	$4,443,483	$4,444,024	$4,444,024	$4,443,483	$4,444,024	$50,565,867
Capacity Release Credits	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$517,512	$6,210,145
NGPMP Credit	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$6,900,000
Net Fixed Costs	$2,636,248	$2,874,789	$2,873,450	$2,871,826	$2,740,450	$3,350,971	$3,351,512	$3,350,971	$3,351,512	$3,351,512	$3,350,971	$3,351,512	$37,455,723
Total All Gas Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$9,884,973	$6,989,827	$6,016,097	$5,436,149	$5,331,809	$5,177,862	$6,646,301	$146,440,909

Attachment EDA-2
REDACTED

EDA-2 Gas Cost Details – **REDACTED Information**

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV 2014	DEC 2014	JAN 2015	FEB 2015	MAR 2015	APR 2015	MAY 2015	JUN 2015	JUL 2015	AUG 2015	SEP 2015	OCT 2015	Total/Average
Forecast Demand													
RI Sales GCR	2,272,900	4,025,100	4,964,400	4,249,200	3,547,200	2,078,200	1,276,400	923,600	744,900	708,200	731,300	1,301,500	26,822,900
Total Demand	2,272,900	4,025,100	4,964,400	4,249,200	3,547,200	2,078,200	1,276,400	923,600	744,900	708,200	731,300	1,301,500	26,822,900
Storage Injections													
TENN 501	0	0	0	0	0	77,600	75,700	75,700	75,700	75,700	103,800	75,700	559,900
GSS 300170	0	0	0	0	0	55,100	55,100	55,100	55,100	55,100	66,900	66,700	409,100
GSS 300168	0	0	0	0	0	20,000	20,000	20,000	21,800	20,900	21,200	21,900	145,800
GSS 300171	0	0	0	0	0	24,500	24,500	30,900	26,000	24,500	25,900	26,800	183,100
GSSTE 600045	0	0	0	0	0	54,200	54,200	54,200	54,200	54,200	68,900	54,200	394,100
TETCO 400515	0	0	0	0	0	7,400	7,400	7,900	7,400	7,400	8,700	8,900	55,100
TETCO 400221	0	0	0	0	0	154,400	154,400	165,000	154,400	154,400	181,800	187,800	1,152,200
TETCO 400185	0	0	0	0	0	6,800	6,800	7,200	6,800	6,800	7,900	8,200	50,500
GSS 300169	0	0	0	0	0	26,800	26,800	33,700	27,200	26,800	28,300	29,200	198,800
COL FSS 9630	0	0	0	0	0	28,100	41,400	40,800	12,100	40,800	26,500	14,300	204,000
TENN 62918	0	0	0	0	0	29,900	27,300	27,300	27,300	27,300	39,900	27,300	206,300
Total Underground Storage	0	0	0	0	0	484,800	493,600	517,800	468,000	493,900	579,800	521,000	3,558,900
LNG PROV	0	0	0	0	0	10,500	147,800	22,800	116,900	95,900	58,000	125,800	577,700
LNG VALLEY	0	0	0	0	0	0	3,000	46,100	2,000	19,100	2,000	4,800	77,000
LNG EXETER	0	0	0	0	0	4,000	4,200	4,000	36,100	40,000	90,000	24,500	202,800
Total LNG Injection	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
Total Injections	0	0	0	0	0	499,300	648,600	590,700	623,000	648,900	729,800	676,100	4,416,400

Delivered Firm Sales Supply

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	GCR Total
Sources of Supply													
TENNESSEE ZONE 0 CXN	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE ZONE 0	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE ZONE 1	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE ZONE 4 CXN	348,000	359,600	359,600	324,800	359,600	348,000	359,600	306,600	359,600	359,600	348,000	359,600	4,192,600
TENNESSEE ZONE 4	242,400	359,400	486,600	410,600	275,800	390,400	13,500	0	297,800	290,500	347,700	406,900	3,521,600
TENNESSEE NIAGARA	0	0	7,700	3,200	0	0	0	0	0	0	0	0	10,900
TENNESSEE DRACUT	0	66,200	83,400	136,000	46,400	3,100	0	0	0	0	0	0	335,100
TETCO ELA	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO ETX	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO STX	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO WLA	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO M2	765,100	796,000	773,700	698,800	773,700	274,100	274,100	776,700	525,200	492,900	544,200	784,000	7,478,500
TETCO M3 DELIVERED	400,800	128,300	243,300	234,700	122,200	1,353,200	1,058,800	295,600	0	0	27,000	238,800	4,102,700
COLUMBIA MAUMEE	103,200	835,400	911,500	798,100	730,000	58,700	0	0	0	0	0	0	3,436,900
COLUMBIA BROADRUN	34,200	307,200	307,200	267,600	257,600	19,800	0	0	0	0	0	0	1,193,600
COLUMBIA EAGLE	39,400	49,800	72,700	67,800	28,500	63,800	45,300	44,400	12,100	40,800	26,500	15,100	506,200
COLUMBIA DOWNINGTOWN	33,900	41,700	105,800	68,600	27,600	24,200	0	500	0	0	0	0	302,300
TETCO - NF - TRANSCO	15,200	36,300	35,200	32,800	36,300	0	0	0	0	0	0	0	155,800
TETCO - DTI - TETCO	2,700	8,500	8,200	6,900	8,500	0	0	0	0	0	0	0	34,800
TETCO to B&W - SCT	50,600	62,400	60,600	54,700	60,600	0	0	0	0	0	0	0	288,900
AGT HUBLINE	100	108,300	92,400	130,600	24,700	200	0	0	0	0	0	0	356,300
ANE II - DAWN-TENN	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	151,000
DISTRIGAS NSB Winter	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRIGAS NSB Summer	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
NEWPORT LNG	0	0	0	0	0	0	0	0	0	0	0	0	0

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-2
Redacted
September 2, 2014
Page 2 of 17

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
Non LNG Liquid take	2,065,600	3,190,100	3,578,900	3,263,200	2,782,500	2,535,500	1,751,300	1,423,800	1,194,700	1,183,800	1,293,400	1,804,400	26,067,200
LNG Liquid take	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
Total take	2,065,600	3,190,100	3,578,900	3,263,200	2,782,500	2,550,000	1,906,300	1,496,700	1,349,700	1,338,800	1,443,400	1,959,500	26,924,700
Storage Withdrawals													
TENN 501	7,600	155,600	157,100	98,500	131,300	1,900	0	0	0	0	0	0	552,000
GSS 300170	1,400	110,000	118,200	88,200	77,700	0	0	0	0	0	0	0	395,500
GSS 300168	25,100	35,900	26,200	28,500	28,000	0	0	0	0	0	0	0	143,700
GSS 300171	0	28,200	68,300	58,400	24,200	0	0	0	0	0	0	0	179,100
GSSTE 600045	76,400	78,900	78,900	71,300	78,900	0	0	0	0	0	0	0	384,400
TETCO 400515	0	13,400	13,400	13,400	11,800	0	0	0	0	0	0	0	52,000
TETCO 400221	0	285,500	285,300	285,300	251,000	0	0	0	0	0	0	0	1,107,100
TETCO 400185	0	12,500	12,500	12,500	11,000	0	0	0	0	0	0	0	48,500
GSS 300169	0	47,600	54,100	53,200	38,300	0	0	0	0	0	0	0	193,200
COL FSS 9630	0	40,100	72,900	52,900	26,300	5,400	600	0	0	0	0	0	198,200
TENN 62918	79,300	0	0	57,200	64,400	2,600	0	0	0	0	0	0	203,500
LNG PROV	10,500	17,100	315,900	144,900	14,400	10,500	10,800	10,500	10,800	10,800	10,500	10,800	577,500
LNG VALLEY	3,100	3,200	27,500	18,100	3,200	3,100	3,200	3,100	3,200	3,200	3,100	3,200	77,200
LNG EXETER	4,000	7,000	155,000	3,800	4,200	4,000	4,200	4,000	4,200	4,200	4,000	4,200	202,800
Total Withdrawal Delivered	207,400	835,000	1,385,300	986,200	764,700	27,500	18,800	17,600	18,200	18,200	17,600	18,200	4,314,700
Total Storage withdrawal	189,800	807,700	886,900	819,400	742,900	9,900	600	0	0	0	0	0	3,457,200
Total Peaking withdrawal	17,600	27,300	498,400	166,800	21,800	17,600	18,200	17,600	18,200	18,200	17,600	18,200	857,500
Total Supply	**2,273,000**	**4,025,100**	**4,964,200**	**4,249,400**	**3,547,200**	**2,563,000**	**1,770,100**	**1,441,400**	**1,212,900**	**1,202,000**	**1,311,000**	**1,822,600**	**30,381,900**
Storage withdrawals at Storage Facilty													
TENN 501	7,700	157,800	159,300	99,900	133,200	2,000	0	0	0	0	0	0	559,900
GSS 300170	1,400	113,800	122,200	91,200	80,400	0	0	0	0	0	0	0	409,000
GSS 300168	25,500	36,400	26,600	28,900	28,400	0	0	0	0	0	0	0	145,800
GSS 300171	0	28,900	69,900	59,700	24,700	0	0	0	0	0	0	0	183,200
GSSTE 600045	78,300	80,900	80,900	73,100	80,900	0	0	0	0	0	0	0	394,100
TETCO 400515	0	14,200	14,200	14,200	12,500	0	0	0	0	0	0	0	55,100
TETCO 400221	0	297,000	297,000	297,000	261,400	0	0	0	0	0	0	0	1,152,400
TETCO 400185	0	13,000	13,000	13,000	11,400	0	0	0	0	0	0	0	50,400
GSS 300169	0	49,000	55,600	54,700	39,400	0	0	0	0	0	0	0	198,700
COL FSS 9630	0	41,300	75,000	54,500	27,100	5,600	600	0	0	0	0	0	204,100
TENN 62918	80,400	0	0	58,000	65,300	2,600	0	0	0	0	0	0	206,300
	193,300	832,300	913,700	844,200	764,700	10,200	600	0	0	0	0	0	3,559,000

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
07/31/2014 NYMEX	**$3.925**	**$4.005**	**$4.075**	**$4.064**	**$3.995**	**$3.758**	**$3.747**	**$3.780**	**$3.814**	**$3.824**	**$3.811**	**$3.832**	
TENNESSEE ZONE 0 CONNEXION													
Basis	($0.117)	($0.115)	($0.120)	($0.112)	($0.080)	($0.090)	($0.080)	($0.090)	($0.070)	($0.070)	($0.090)	($0.090)	
Usage to Zn 6	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	
Fuel to Zn 6	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	
Total Delivered	$4.0164	$4.1024	$4.1705	$4.1674	$4.1286	$3.8696	$3.8685	$3.8926	$3.9493	$3.9597	$3.9251	$3.9472	
TENNESSEE ZONE 0													
Basis	($0.117)	($0.115)	($0.120)	($0.112)	($0.080)	($0.090)	($0.080)	($0.090)	($0.070)	($0.070)	($0.090)	($0.090)	
Usage to Zn 6	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	
Fuel to Zn 6	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	
Total Delivered	$4.3288	$4.4148	$4.4829	$4.4798	$4.4410	$4.1820	$4.1809	$4.2050	$4.2617	$4.2721	$4.2375	$4.2596	
TENNESSEE ZONE 1													
Basis	($0.058)	($0.073)	($0.048)	($0.049)	($0.044)	($0.087)	($0.074)	($0.072)	($0.089)	($0.074)	($0.087)	($0.105)	
Usage to Zn 6	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	
Fuel to Zn 6	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	
Total Delivered	$4.3239	$4.3911	$4.4906	$4.4776	$4.4109	$4.1190	$4.1217	$4.1581	$4.1759	$4.2019	$4.1748	$4.1774	
TENNESSEE ZONE 4 CONNEXION													
Basis	($1.200)	($1.170)	($0.960)	($0.990)	($0.910)	($0.945)	($1.095)	($0.755)	($1.305)	($1.300)	($1.580)	($1.530)	
Usage to Zn 6	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	
Fuel to Zn 6	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	
Total Delivered	$2.7701	$2.8817	$3.1656	$3.1240	$3.1352	$2.8594	$2.6961	$3.0743	$2.5511	$2.5663	$2.2691	$2.3411	
TENNESSEE ZONE 4													
Basis	($1.200)	($1.170)	($0.960)	($0.990)	($0.910)	($0.945)	($1.095)	($0.755)	($1.305)	($1.300)	($1.580)	($1.530)	
Usage to Zn 6	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	
Fuel to Zn 6	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	
Total Delivered	$2.8774	$2.9890	$3.2729	$3.2313	$3.2425	$2.9667	$2.8034	$3.1816	$2.6584	$2.6736	$2.3764	$2.4484	
NIAGARA TO TENNESSEE													
Basis	$0.140	$0.240	$0.255	$0.272	$0.320	$0.233	($0.077)	($0.246)	($0.391)	$0.159	$0.150	$0.203	
Tenn usage	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	
Tenn Fuel	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	
Total Delivered	$4.1942	$4.3761	$4.4620	$4.4681	$4.4469	$4.1195	$3.7950	$3.6576	$3.5454	$4.1114	$4.0891	$4.1639	
TENNESSEE DRACUT													
Basis	$2.074	$10.799	$14.056	$13.146	$5.654	$0.628	-$0.986	$0.535	-$0.184	-$0.536	-$0.969	-$0.622	
Usage	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	
Fuel	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	
Total Delivered	$6.0470	$14.8706	$18.2046	$17.2816	$9.7047	$4.4306	$2.8022	$4.3595	$3.6730	$3.3303	$2.8834	$3.2522	
TETCO ELA													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage to M3	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.88%	6.93%	6.93%	6.93%	6.93%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.2385	$4.3546	$4.4457	$4.4154	$4.3763	$4.0007	$3.9782	$4.0275	$4.0682	$4.0714	$4.0714	$4.0832	

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO ETX													
Basis	($0.116)	($0.103)	($0.071)	($0.062)	($0.064)	($0.046)	($0.049)	($0.062)	($0.052)	($0.012)	($0.059)	($0.016)	
Usage to M3	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.57%	6.31%	6.31%	6.31%	6.31%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.1598	$4.2963	$4.4062	$4.4040	$4.3275	$4.0562	$4.0413	$4.0626	$4.1096	$4.1630	$4.0989	$4.1672	
TETCO STX													
Basis	($0.083)	($0.090)	($0.067)	($0.065)	($0.057)	($0.012)	($0.003)	($0.012)	$0.008	$0.008	($0.013)	($0.012)	
Usage to M3	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.83%	6.87%	6.87%	6.87%	6.87%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.2127	$4.3420	$4.4428	$4.4330	$4.3669	$4.1099	$4.1078	$4.1335	$4.1913	$4.2020	$4.1656	$4.1891	
TETCO WLA													
Basis	($0.102)	($0.063)	($0.077)	($0.039)	($0.019)	$3.886	($1.864)	($2.261)	($0.824)	($0.141)	($1.211)	$1.699	
Usage to M3	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.88%	6.93%	6.93%	6.93%	6.93%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.1882	$4.3677	$4.4284	$4.4577	$4.4045	$8.2810	$2.1101	$1.7202	$3.2959	$4.0382	$2.8781	$6.0177	
TETCO M2													
Basis	($1.141)	($0.956)	($0.810)	($0.817)	($0.892)	($0.950)	($1.205)	($1.296)	($1.274)	($1.282)	($1.548)	($1.543)	
Usage on Tetco	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Tetco	3.69%	4.13%	4.13%	4.13%	4.13%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$2.9776	$3.2729	$3.5003	$3.4813	$3.3298	$3.0027	$2.7243	$2.6635	$2.7222	$2.7243	$2.4322	$2.4594	
TETCO M3 DELIVERED													
Basis	($0.585)	$0.620	$3.200	$2.095	$0.023	($0.885)	($1.150)	($1.102)	($0.860)	($0.890)	($1.410)	($1.372)	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.3797	$4.6799	$7.3542	$6.2280	$4.0673	$2.9089	$2.6306	$2.7123	$2.9905	$2.9704	$2.4330	$2.4925	
COLUMBIA MAUMEE													
Basis	($0.120)	($0.155)	($0.180)	($0.170)	($0.175)	($0.112)	($0.145)	($0.215)	($0.280)	($0.350)	($0.547)	($0.512)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-2
Redacted
September 2, 2014

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
COLUMBIA BROADRUN													
Basis	($0.120)	($0.155)	($0.180)	($0.170)	($0.175)	($0.112)	($0.145)	($0.215)	($0.280)	($0.350)	($0.547)	($0.512)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
COLUMBIA EAGLE													
Basis	($0.585)	$0.620	$3.200	$2.095	$0.023	($0.885)	($1.150)	($1.102)	($0.860)	($0.890)	($1.410)	($1.372)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.4622	$4.7879	$7.5145	$6.3662	$4.1633	$2.9822	$2.6985	$2.7818	$3.0655	$3.0449	$2.4971	$2.5577	
COLUMBIA DOWNINGTOWN													
Basis	($0.410)	$0.920	$2.123	$3.325	$0.085	($0.628)	($1.015)	($1.000)	($0.708)	($0.738)	($1.113)	($1.070)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.6421	$5.0965	$6.4063	$7.6318	$4.2271	$3.2464	$2.8373	$2.8866	$3.2217	$3.2011	$2.8023	$2.8681	
TETCO -> NF -> TRANSCO													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage to M2	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	
Usage on NF	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	
Usage on Transco	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	
Usage on AGT	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	
Fuel to M2	4.93%	5.69%	5.69%	5.69%	5.69%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	
Fuel on NF	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	
Fuel on Transco	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Delivered to NF	$4.4854	$4.5818	$4.6709	$4.6412	$4.6030	$4.2519	$4.2298	$4.2782	$4.3181	$4.3213	$4.3213	$4.3329	
Delivered to Transco	$4.5513	$4.6488	$4.7388	$4.7088	$4.6702	$4.3152	$4.2928	$4.3418	$4.3822	$4.3854	$4.3854	$4.3971	
Delivered to Algonquin	$4.5690	$4.6667	$4.7570	$4.7269	$4.6882	$4.3323	$4.3099	$4.3589	$4.3995	$4.4027	$4.4027	$4.4144	
Total Delivered	$4.8348	$4.9381	$5.0292	$4.9988	$4.9598	$4.5962	$4.5736	$4.6230	$4.6639	$4.6671	$4.6671	$4.6789	

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> DTI -> TETCO													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage to M2	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	
Usage on Dominion	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	
Usage on Tetco	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	
Usage on AGT	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	
Fuel to M2	4.93%	5.69%	5.69%	5.69%	5.69%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	
Fuel on Dominion	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	
Fuel on Tetco	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Delivered to Dominion	$4.4854	$4.5818	$4.6709	$4.6412	$4.6030	$4.2519	$4.2298	$4.2782	$4.3181	$4.3213	$4.3213	$4.3329	
Delivered to Tetco	$4.5948	$4.6931	$4.7840	$4.7537	$4.7148	$4.3566	$4.3341	$4.3835	$4.4242	$4.4274	$4.4274	$4.4392	
Delivered to Algonquin	$4.6560	$4.7557	$4.8477	$4.8170	$4.7776	$4.4148	$4.3919	$4.4419	$4.4832	$4.4865	$4.4865	$4.4985	
Total Delivered	$4.9226	$5.0278	$5.1207	$5.0898	$5.0499	$4.6793	$4.6563	$4.7067	$4.7483	$4.7516	$4.7516	$4.7637	
TETCO to B&W - SCT													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage on Tetco	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	
Usage on AGT	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	
Fuel to M3	5.84%	6.85%	6.85%	6.85%	6.85%	5.84%	5.84%	5.84%	5.84%	5.84%	5.84%	5.84%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.8862	$5.0008	$5.0918	$5.0615	$5.0225	$4.6485	$4.6260	$4.6752	$4.7159	$4.7191	$4.7191	$4.7309	
AGT HUBLINE													
Basis	$2.060	$10.725	$13.960	$13.055	$5.615	$0.525	($0.835)	$0.452	($0.190)	($0.530)	($0.835)	($0.575)	
AGT Usage	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
AGT Fuel	0.54%	0.62%	0.62%	0.62%	0.62%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	
Total Delivered	$6.0299	$14.8343	$18.1599	$17.2382	$9.6824	$4.3187	$2.9402	$4.2674	$3.6561	$3.3243	$3.0046	$3.2871	
DAWN TO TENNESSEE - ANE II													
Basis	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	
Iroquois usage	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	
Tenn usage	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	
Fuel on Iroquois	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Fuel on Tenn	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	
Total Delivered	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$3.8882	$3.8771	$3.9105	$3.9448	$3.9549	$3.9418	$3.9630	

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

Total Delivered to the City Gate Gas Supply Costs

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TENNESSEE ZONE 0 CONNEXION													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.016	$4.102	$4.171	$4.167	$4.129	$3.870	$3.869	$3.893	$3.949	$3.960	$3.925	$3.947	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE ZONE 0													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.329	$4.415	$4.483	$4.480	$4.441	$4.182	$4.181	$4.205	$4.262	$4.272	$4.238	$4.260	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE ZONE 1													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.324	$4.391	$4.491	$4.478	$4.411	$4.119	$4.122	$4.158	$4.176	$4.202	$4.175	$4.177	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE ZONE 4 CONNEXION													
Delivered MMBtu	348,000	359,600	359,600	324,800	359,600	348,000	359,600	306,600	359,600	359,600	348,000	359,600	
Delivered Price	$2.7701	$2.8817	$3.1656	$3.1240	$3.1352	$2.8594	$2.6961	$3.0743	$2.5511	$2.5663	$2.2691	$2.3411	
Total Delivered Cost	$963,999	$1,036,246	$1,138,353	$1,014,685	$1,127,413	$995,054	$969,511	$942,593	$917,364	$922,834	$789,664	$841,877	
TENNESSEE ZONE 4													
Delivered MMBtu	242,400	359,400	486,600	410,600	275,800	390,400	13,500	0	297,800	290,500	347,700	406,900	
Delivered Price	$2.8774	$2.9890	$3.2729	$3.2313	$3.2425	$2.9667	$2.8034	$3.1816	$2.6584	$2.6736	$2.3764	$2.4484	
Total Delivered Cost	$697,485	$1,074,233	$1,592,597	$1,326,784	$894,278	$1,158,181	$37,846	$0	$791,662	$776,674	$826,291	$996,274	
NIAGARA TO TENNESSEE													
Delivered MMBtu	0	0	7,700	3,200	0	0	0	0	0	0	0	0	
Delivered Price	$4.1942	$4.3761	$4.4620	$4.4681	$4.4469	$4.1195	$3.7950	$3.6576	$3.5454	$4.1114	$4.0891	$4.1639	
Total Delivered Cost	$0	$0	$34,358	$14,298	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE DRACUT													
Delivered MMBtu	0	66,200	83,400	136,000	46,400	3,100	0	0	0	0	0	0	
Delivered Price	$6.05	$14.87	$18.20	$17.28	$9.70	$4.43	$2.80	$4.36	$3.67	$3.33	$2.88	$3.25	
Total Delivered Cost	$0	$984,431	$1,518,260	$2,350,300	$450,298	$13,735	$0	$0	$0	$0	$0	$0	
TETCO ELA													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.2385	$4.3546	$4.4457	$4.4154	$4.3763	$4.0007	$3.9782	$4.0275	$4.0682	$4.0714	$4.0714	$4.0832	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TETCO ETX													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.1598	$4.2963	$4.4062	$4.4040	$4.3275	$4.0562	$4.0413	$4.0626	$4.1096	$4.1630	$4.0989	$4.1672	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO STX													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.213	$4.342	$4.443	$4.433	$4.367	$4.110	$4.108	$4.133	$4.191	$4.202	$4.166	$4.189	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TETCO WLA													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.1882	$4.3677	$4.4284	$4.4577	$4.4045	$8.2810	$2.1101	$1.7202	$3.2959	$4.0382	$2.8781	$6.0177	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TETCO M2													
Delivered MMBtu	765,100	796,000	773,700	698,800	773,700	274,100	274,100	776,700	525,200	492,900	544,200	784,000	
Delivered Price	$2.9776	$3.2729	$3.5003	$3.4813	$3.3298	$3.0027	$2.7243	$2.6635	$2.7222	$2.7243	$2.4322	$2.4594	
Total Delivered Cost	$2,278,149	$2,605,244	$2,708,177	$2,432,764	$2,576,237	$823,042	$746,720	$2,068,776	$1,429,682	$1,342,788	$1,323,606	$1,928,186	
TETCO M3 DELIVERED													
Delivered MMBtu	400,800	128,300	243,300	234,700	122,200	1,353,200	1,058,800	295,600	0	0	27,000	238,800	
Delivered Price	$3.3797	$4.6799	$7.3542	$6.2280	$4.0673	$2.9089	$2.6306	$2.7123	$2.9905	$2.9704	$2.4330	$2.4925	
Total Delivered Cost	$1,354,574	$600,428	$1,789,279	$1,461,703	$497,024	$3,936,271	$2,785,287	$801,747	$0	$0	$65,691	$595,206	
COLUMBIA MAUMEE													
Delivered MMBtu	103,200	835,400	911,500	798,100	730,000	58,700	0	0	0	0	0	0	
Delivered Price	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
Total Delivered Cost	$406,627	$3,333,620	$3,679,496	$3,220,907	$2,890,493	$221,695	$0	$0	$0	$0	$0	$0	
COLUMBIA BROADRUN													
Delivered MMBtu	34,200	307,200	307,200	267,600	257,600	19,800	0	0	0	0	0	0	
Delivered Price	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
Total Delivered Cost	$134,754	$1,225,865	$1,240,089	$1,079,958	$1,019,988	$74,780	$0	$0	$0	$0	$0	$0	
COLUMBIA EAGLE													
Delivered MMBtu	39,400	49,800	72,700	67,800	28,500	63,800	45,300	44,400	12,100	40,800	26,500	15,100	
Delivered Price	$3.4622	$4.7879	$7.5145	$6.3662	$4.1633	$2.9822	$2.6985	$2.7818	$3.0655	$3.0449	$2.4971	$2.5577	
Total Delivered Cost	$136,412	$238,435	$546,301	$431,628	$118,654	$190,265	$122,243	$123,511	$37,092	$124,232	$66,172	$38,621	
COLUMBIA DOWNINGTOWN													
Delivered MMBtu	33,900	41,700	105,800	68,600	27,600	24,200	0	500	0	0	0	0	
Delivered Price	$3.6421	$5.0965	$6.4063	$7.6318	$4.2271	$3.2464	$2.8373	$2.8866	$3.2217	$3.2011	$2.8023	$2.8681	
Total Delivered Cost	$123,467	$212,525	$677,789	$523,538	$116,668	$78,562	$0	$1,443	$0	$0	$0	$0	

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-2
Redacted
September 2, 2014
Page 9 of 17

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> NF -> TRANSCO													
Delivered MMBtu	15,200	36,300	35,200	32,800	36,300	0	0	0	0	0	0	0	
Delivered Price	$4.8348	$4.9381	$5.0292	$4.9988	$4.9598	$4.5962	$4.5736	$4.6230	$4.6639	$4.6671	$4.6671	$4.6789	
Total Delivered Cost	$73,489	$179,252	$177,027	$163,961	$180,039	$0	$0	$0	$0	$0	$0	$0	
TETCO -> DTI -> TETCO													
Delivered MMBtu	2,700	8,500	8,200	6,900	8,500	0	0	0	0	0	0	0	
Delivered Price	$4.9226	$5.0278	$5.1207	$5.0898	$5.0499	$4.6793	$4.6563	$4.7067	$4.7483	$4.7516	$4.7516	$4.7637	
Total Delivered Cost	$13,291	$42,737	$41,990	$35,119	$42,925	$0	$0	$0	$0	$0	$0	$0	
TETCO to B&W - SCT													
Delivered MMBtu	50,600	62,400	60,600	54,700	60,600	0	0	0	0	0	0	0	
Delivered Price	$4.8862	$5.0008	$5.0918	$5.0615	$5.0225	$4.6485	$4.6260	$4.6752	$4.7159	$4.7191	$4.7191	$4.7309	
Total Delivered Cost	$247,239	$312,052	$308,565	$276,864	$304,363	$0	$0	$0	$0	$0	$0	$0	
AGT HUBLINE													
Delivered MMBtu	100	108,300	92,400	130,600	24,700	200	0	0	0	0	0	0	
Delivered Price	$6.0299	$14.8343	$18.1599	$17.2382	$9.6824	$4.3187	$2.9402	$4.2674	$3.6561	$3.3243	$3.0046	$3.2871	
Total Delivered Cost	$603	$1,606,554	$1,677,976	$2,251,309	$239,154	$864	$0	$0	$0	$0	$0	$0	
DAWN TO TENNESSEE - ANE II													
Delivered MMBtu	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	
Delivered Price	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$3.8882	$3.8771	$3.9105	$3.9448	$3.9549	$3.9418	$3.9630	
Total Delivered Cost	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$0	$0	$0	$0	$0	$0	$0	
	NOV	**DEC**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	
	2014	2014	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	
Financial Hedges as of July 31, 2014													
Quantity	1,700,000	3,436,000	3,080,000	2,610,000	2,510,000	1,449,361	747,596	414,884	413,624	425,433	375,724	527,045	**17,689,666**
Average Price	$4.194	$4.371	$4.427	$4.428	$4.373	$4.042	$4.092	$4.064	$4.067	$4.012	$4.048	$4.049	
07/31/2014 NYMEX	$3.925	$4.005	$4.075	$4.064	$3.995	$3.758	$3.747	$3.780	$3.814	$3.824	$3.811	$3.832	
Impact of Financial Hedges	**$456,560**	**$1,258,610**	**$1,084,720**	**$950,790**	**$949,635**	**$411,381**	**$257,722**	**$117,879**	**$104,720**	**$80,191**	**$88,890**	**$114,437**	**$5,875,535.12**
Total Pipeline Costs (Incl Inj)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	**$7,903,830**	**$4,919,328**	**$4,055,949**	**$3,280,519**	**$3,246,719**	**$3,160,314**	**$4,514,602**	**$100,526,450**
Total Delivered Pipeline Vol	**2,065,600**	**3,190,100**	**3,578,900**	**3,263,200**	**2,782,500**	**2,535,500**	**1,751,300**	**1,423,800**	**1,194,700**	**1,183,800**	**1,293,400**	**1,804,400**	**26,067,200**
WACOG (Cost/Volume)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$3.117	$2.809	$2.849	$2.746	$2.743	$2.443	$2.502	$3.856
Injections	0	0	0	0	0	484,800	493,600	517,800	468,000	493,900	579,800	521,000	3,558,900
Cost of Injections	$0	$0	$0	$0	$0	$1,511,251	$1,386,502	$1,475,046	$1,285,078	$1,354,582	$1,416,692	$1,303,540	**$9,732,691**
Total GCR Cost Including Financial Hedges, Excluding Injections													
Total Pipeline Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	**$6,392,579**	**$3,532,827**	**$2,580,903**	**$1,995,441**	**$1,892,137**	**$1,743,621**	**$3,211,062**	**$90,793,759**
Total Pipeline Purchase Volumes	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	**2,050,700**	**1,257,700**	**906,000**	**726,700**	**689,900**	**713,600**	**1,283,400**	**22,508,300**

2014 GCR estimate
FIXED COST ESTIMATES
Nov 2014 - Oct 2015

2014-2015 Gas Supply Fixed Costs
UNIT PRICES

		Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15
PIPELINE FIXED COST UNIT PRICES $/Dth													
ALGONQUIN AFT-E/AFT-1 DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQUIN AFT-3 DEMAND	$/Dth	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554
ALGONQUIN AFT-ES/1S DEMAND	$/Dth	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685
ALGONQUIN HUBLINE DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
ALGONQUIN HUBLINE DEMAND	$/Dth	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958
ALGONQUIN HUBLINE DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
ALGONQUIN EAST TO WEST DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
COLUMBIA FTS DEMAND	$/Dth	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680
DOMINION FTNN DEMAND	$/Dth	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904
IROQUOIS DEMAND	$/Dth	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971
NATIONAL FUEL DEMAND	$/Dth	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$/Dth	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365
TENNESSEE FT-A DEMAND DRACUT	$/Dth	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$/Dth	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560
TEXAS EASTERN CDS STX DEMAND M3	$/Dth	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030
TEXAS EASTERN CDS WLA DEMAND M3	$/Dth	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240
TEXAS EASTERN CDS ELA DEMAND M3	$/Dth	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740
TEXAS EASTERN CDS ETX DEMAND M3	$/Dth	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880
TEXAS EASTERN CDS 1-3 DEMAND M3	$/Dth	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630
TEXAS EASTERN FTS DEMAND	$/Dth	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510
TEXAS EASTERN SCT STX DEMAND M3	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M3	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M3	$/Dth	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M3	$/Dth	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750
TEXAS EASTERN SCT 1-3 DEMAND M3	$/Dth	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060
TEXAS EASTERN SCT STX DEMAND M2	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M2	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M2	$/Dth	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M2	$/Dth	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750
TEXAS EASTERN SCT 1-2 DEMAND M2	$/Dth	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480
TRANSCANADA DEMAND	$/Dth	$8.8779	$9.1738	$9.1738	$8.2860	$9.1738	$8.8779	$9.1738	$8.8779	$9.1738	$9.1738	$8.8779	$9.1738
TRANSCO DEMAND ZONE 6 TO 6	$/Dth	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306
UNION DEMAND	$/Dth	$2.3370	$2.4149	$2.4149	$2.1812	$2.4149	$2.3370	$2.4149	$2.3370	$2.4149	$2.4149	$2.3370	$2.4149
STORAGE FIXED COST UNIT PRICES													
COLUMBIA FSS DEMAND	$/Dth	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090	$1.5090
COLUMBIA FSS CAPACITY	$/Dth	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289
DOMINION GSS DEMAND	$/Dth	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553
DOMINION GSS CAPACITY	$/Dth	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145
DOMINION GSS-TE DEMAND	$/Dth	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553	$1.8553
DOMINION GSS-TE CAPACITY	$/Dth	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145
TENNESSEE FSMA DEMAND	$/Dth	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400	$1.5400
TENNESSEE FSMA CAPACITY	$/Dth	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211
TEXAS EASTERN SS-1 DEMAND	$/Dth	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320	$5.3320
TEXAS EASTERN SS-1 CAPACITY	$/Dth	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293
TEXAS EASTERN FSS-1 DEMAND	$/Dth	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960	$0.8960
TEXAS EASTERN FSS-1 CAPACITY	$/Dth	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293

REDACTED VERSION

STORAGE DELIVERY FIXED		Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15
UNIT RATES ($/Dth)													
PATH													
ALGONQUIN FOR TETCO SS-1	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQUIN DELIVERY FOR FSS-1	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQUIN SCT FOR SS-1	$/Dth	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685
ALGONQUIN DELIVERY FOR GSS, GSS-TE,	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQUIN SCT DELIVERY FOR GSS-TE	$/Dth	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685
ALGONQUIN DELIVERY FOR GSS CONV.	$/Dth	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854
ALGONQUIN DELIVERY FOR FSS	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
COLUMBIA DELIVERY FOR FSS	$/Dth	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980	$5.8980
DOMINION DELIVERY FOR GSS	$/Dth	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904
DOMINION DELIVERY FOR GSS CONV.	$/Dth	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904
TENNESSEE DELIVERY FOR GSS	$/Dth	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778
TENNESSEE DELIVERY FOR FSMA	$/Dth	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778	$8.3778
TETCO DELIVERY FOR FSS-1	$/Dth	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510
TETCO DELIVERY FOR GSS/GSS-TE	$/Dth	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510
TETCO DELIVERY FOR GSS-TE	$/Dth	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760	$6.5760
TETCO DELIVERY FOR GSS-TE	$/Dth	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640	$6.8640
TETCO DELIVERY FOR GSS CONV.	$/Dth	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790
SUPPLIER FIXED COST UNIT PRICES													
GDF SUEZ NSB CALL PAYMENT Winter	$/Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
GDF SUEZ NSB CALL PAYMENT Summer	$/Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
EMERA PEAKING SUPPLY AT SALEM	$/Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
BP PEAKING SUPPLY AT DRACUT	$/Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
							BILLING UNITS						
PIPELINE FIXED COST BILLING UNITS													
ALGONQUIN AFT-E/AFT-1 DEMAND	Dth	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285
ALGONQUIN AFT-3 DEMAND	Dth	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063
ALGONQUIN AFT-ES/1S DEMAND	Dth	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079
ALGONQUIN HUBLINE DEMAND	Dth	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
ALGONQUIN HUBLINE DEMAND	Dth	500	500	500	500	500	500	500	500	500	500	500	500
ALGONQUIN HUBLINE DEMAND	Dth	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
ALGONQUIN EAST TO WEST DEMAND	Dth	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
COLUMBIA FTS DEMAND	Dth	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455
DOMINION FTNN DEMAND	Dth	537	537	537	537	537	537	537	537	537	537	537	537
IROQUOIS DEMAND	Dth	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
NATIONAL FUEL DEMAND	Dth	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177
TENNESSEE FT-A DEMAND ZONE 0 TO 6	Dth	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
TENNESSEE FT-A DEMAND ZONE 1 TO 6	Dth	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500
TENNESSEE FT-A DEMAND ZONE 0 TO 6	Dth	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022
TENNESSEE FT-A DEMAND ZONE 1 TO 6	Dth	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	Dth	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600
TENNESSEE FT-A DEMAND DRACUT	Dth	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
TENNESSEE FT-A DEMAND ZONE 5 TO 6	Dth	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067
TEXAS EASTERN CDS STX DEMAND M3	Dth	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844
TEXAS EASTERN CDS WLA DEMAND M3	Dth	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716
TEXAS EASTERN CDS ELA DEMAND M3	Dth	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758
TEXAS EASTERN CDS ETX DEMAND M3	Dth	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995
TEXAS EASTERN CDS 1-3 DEMAND M3	Dth	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934
TEXAS EASTERN FTS DEMAND	Dth	537	537	537	537	537	537	537	537	537	537	537	537
TEXAS EASTERN SCT STX DEMAND M3	Dth	571	571	571	571	571	571	571	571	571	571	571	571
TEXAS EASTERN SCT WLA DEMAND M3	Dth	648	648	648	648	648	648	648	648	648	648	648	648
TEXAS EASTERN SCT ELA DEMAND M3	Dth	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183
TEXAS EASTERN SCT ETX DEMAND M3	Dth	329	329	329	329	329	329	329	329	329	329	329	329
TEXAS EASTERN SCT 1-3 DEMAND M3	Dth	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099
TEXAS EASTERN SCT STX DEMAND M2	Dth	401	401	401	401	401	401	401	401	401	401	401	401
TEXAS EASTERN SCT WLA DEMAND M2	Dth	455	455	455	455	455	455	455	455	455	455	455	455
TEXAS EASTERN SCT ELA DEMAND M2	Dth	831	831	831	831	831	831	831	831	831	831	831	831
TEXAS EASTERN SCT ETX DEMAND M2	Dth	231	231	231	231	231	231	231	231	231	231	231	231
TEXAS EASTERN SCT 1-2 DEMAND M2	Dth	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474
TRANSCANADA DEMAND	Dth	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
TRANSCO DEMAND ZONE 6 TO 6	Dth	37,200	38,440	38,440	34,720	38,440	37,200	38,440	37,200	38,440	38,440	37,200	38,440
UNION DEMAND	Dth	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-2
Redacted
September 2, 2014
Page 12 of 17

REDACTED VERSION

		Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15
STORAGE FIXED COST BILLING UNITS													
COLUMBIA FSS DEMAND	Dth	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545
COLUMBIA FSS CAPACITY	Dth	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957
DOMINION GSS DEMAND	Dth	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403
DOMINION GSS CAPACITY	Dth	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304
DOMINION GSS-TE DEMAND	Dth	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337
DOMINION GSS-TE CAPACITY	Dth	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324
TENNESSEE FSMA DEMAND	Dth	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169
TENNESSEE FSMA CAPACITY	Dth	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343
TEXAS EASTERN SS-1 DEMAND	Dth	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802
TEXAS EASTERN SS-1 CAPACITY	Dth	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336
TEXAS EASTERN FSS-1 DEMAND	Dth	944	944	944	944	944	944	944	944	944	944	944	944
TEXAS EASTERN FSS-1 CAPACITY	Dth	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720
STORAGE DELIVERY BILLING UNITS (DTH)													
ALGONQUIN FOR TETCO SS-1	Dth	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137
ALGONQUIN DELIVERY FOR FSS-1	Dth	944	944	944	944	944	944	944	944	944	944	944	944
ALGONQUIN SCT FOR SS-1	Dth	665	665	665	665	665	665	665	665	665	665	665	665
ALGONQUIN DELIVERY FOR GSS, GSS-TE,	Dth	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739
ALGONQUIN SCT DELIVERY FOR GSS-TE	Dth	187	187	187	187	187	187	187	187	187	187	187	187
ALGONQUIN DELIVERY FOR GSS CONV	Dth	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061
ALGONQUIN DELIVERY FOR FSS	Dth	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545
COLUMBIA DELIVERY FOR FSS	Dth	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545
DOMINION DELIVERY FOR GSS	Dth	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324
DOMINION DELIVERY FOR GSS CONV	Dth	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061
TENNESSEE DELIVERY FOR GSS	Dth	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725
TENNESSEE DELIVERY FOR FSMA	Dth	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111
TETCO DELIVERY FOR FSS-1	Dth	944	944	944	944	944	944	944	944	944	944	944	944
TETCO DELIVERY FOR GSS/GSS-TE	Dth	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377
TETCO DELIVERY FOR GSS-TE	Dth	538	538	538	538	538	538	538	538	538	538	538	538
TETCO DELIVERY FOR GSS-TE	Dth	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011
TETCO DELIVERY FOR GSS CONV	Dth	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061
SUPPLIER FIXED COST BILLING UNITS													
DISTRIGAS NSB CALL PAYMENT Winter	Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
DISTRIGAS NSB CALL PAYMENT Summer	Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
EMERA PEAKING SUPPLY AT SALEM	Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
BP PEAKING SUPPLY AT DRACUT	Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

		Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15
		TOTAL COST											
PIPELINE FIXED COST DOLLARS													
ALGONQUIN AFT-E/AFT-1 DEMAND	$	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483
ALGONQUIN AFT-3 DEMAND	$	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987
ALGONQUIN AFT-ES/1S DEMAND	$	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477
ALGONQUIN HUBLINE DEMAND	$	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736
ALGONQUIN HUBLINE DEMAND	$	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498
ALGONQUIN HUBLINE DEMAND	$	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519
ALGONQUIN EAST TO WEST DEMAND	$	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341
ALGONQUIN EAST TO WEST AMA FEE	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
CANADIAN CAPACITY AMA FEE	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
COLUMBIA FTS DEMAND	$	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957
DOMINION FTNN DEMAND	$	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250
IROQUOIS DEMAND	$	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676
NATIONAL FUEL DEMAND	$	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743
TENNESSEE FT-A DEMAND DRACUT	$	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205
TEXAS EASTERN CDS STX DEMAND M3	$	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181
TEXAS EASTERN CDS WLA DEMAND M3	$	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382
TEXAS EASTERN CDS ELA DEMAND M3	$	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401
TEXAS EASTERN CDS ETX DEMAND M3	$	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493
TEXAS EASTERN CDS 1-3 DEMAND M3	$	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421
TEXAS EASTERN FTS DEMAND	$	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873
TEXAS EASTERN SCT STX DEMAND M3	$	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554
TEXAS EASTERN SCT WLA DEMAND M3	$	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732
TEXAS EASTERN SCT ELA DEMAND M3	$	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124
TEXAS EASTERN SCT ETX DEMAND M3	$	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288
TEXAS EASTERN SCT 1-3 DEMAND M3	$	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618
TEXAS EASTERN SCT STX DEMAND M2	$	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091
TEXAS EASTERN SCT WLA DEMAND M2	$	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514
TEXAS EASTERN SCT ELA DEMAND M2	$	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789
TEXAS EASTERN SCT ETX DEMAND M2	$	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202
TEXAS EASTERN SCT 1-2 DEMAND M2	$	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640
TRANSCANADA DEMAND	$	$8,984	$9,284	$9,284	$8,385	$9,284	$8,984	$9,284	$8,984	$9,284	$9,284	$8,984	$9,284
TRANSCO DEMAND ZONE 6 TO 6	$	$4,857	$5,019	$5,019	$4,533	$5,019	$4,857	$5,019	$4,857	$5,019	$5,019	$4,857	$5,019
UNION DEMAND	$	$2,395	$2,475	$2,475	$2,236	$2,475	$2,395	$2,475	$2,395	$2,475	$2,475	$2,395	$2,475
WESTERLY LATERAL (Yankee)	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL PIPELINE DEMAND COSTS		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
STORAGE FIXED COST DOLLARS													
COLUMBIA FSS DEMAND	$	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840
COLUMBIA FSS CAPACITY	$	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894
DOMINION GSS DEMAND	$	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156
DOMINION GSS CAPACITY	$	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070
DOMINION GSS-TE DEMAND	$	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599
DOMINION GSS-TE CAPACITY	$	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957
TENNESSEE FSMA DEMAND	$	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600
TENNESSEE FSMA CAPACITY	$	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204
TEXAS EASTERN SS-1 DEMAND	$	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924
TEXAS EASTERN SS-1 CAPACITY	$	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361
TEXAS EASTERN FSS-1 DEMAND	$	$846	$846	$846	$846	$846	$846	$846	$846	$846	$846	$846	$846
TEXAS EASTERN FSS-1 CAPACITY	$	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610
NATIONAL GRID LNG TANK LEASE PAYMENTS	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL STORAGE DEMAND COSTS	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

REDACTED VERSION

STORAGE DELIVERY FIXED COSTS														
ALGONQUIN FOR TETCO SS-1	$	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	
ALGONQUIN DELIVERY FOR FSS-1	$	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	
ALGONQUIN SCT FOR SS-1	$	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	
ALGONQUIN DELIVERY FOR GSS, GSS-TE,	$	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	
ALGONQUIN SCT DELIVERY FOR GSS-TE	$	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	
ALGONQUIN DELIVERY FOR GSS CONV	$	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	
ALGONQUIN DELIVERY FOR FSS	$	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	
COLUMBIA DELIVERY FOR FSS	$	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	
DOMINION DELIVERY FOR GSS	$	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	
DOMINION DELIVERY FOR GSS CONV	$	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	
TENNESSEE DELIVERY FOR GSS	$	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	
TENNESSEE DELIVERY FOR FSMA	$	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	
TETCO DELIVERY FOR FSS-1	$	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	
TETCO DELIVERY FOR GSS/GSS-TE	$	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	
TETCO DELIVERY FOR GSS-TE	$	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	
TETCO DELIVERY FOR GSS-TE	$	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	
TETCO DELIVERY FOR GSS CONV	$	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	
TOTAL STORAGE DELIVERY DEMAND COSTS		**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$5,221,856**
DISTRIGAS NSB CALL PAYMENT Winter	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
DISTRIGAS NSB CALL PAYMENT Summer	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
EMERA PEAKING SUPPLY AT SALEM	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
BP PEAKING SUPPLY AT DRACUT	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL SUPPLIER DEMAND COSTS		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL ALL DEMAND COSTS	$	**$3,728,760**	**$3,967,301**	**$3,965,962**	**$3,964,338**	**$3,832,962**	**$4,443,483**	**$4,444,024**	**$4,443,483**	**$4,444,024**	**$4,444,024**	**$4,443,483**	**$4,444,024**	**$50,565,867**
		Nov-14	**Dec-14**	**Jan-15**	**Feb-15**	**Mar-15**	**Apr-15**	**May-15**	**Jun-15**	**Jul-15**	**Aug-15**	**Sep-15**	**Oct-15**	**Total**
Marketer Demand Charge Credits														
Capacity Release Volumes as of August 1, 2014														
Tennessee	Dth	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	
Algonquin	Dth	2,316	2,316	2,316	2,316	2,316	2,316	2,316	2,316	2,316	2,316	2,316	2,316	
Tetco STX/AGT	Dth	3,682	3,682	3,682	3,682	3,682	3,682	3,682	3,682	3,682	3,682	3,682	3,682	
Tetco WLA/AGT	Dth	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	
Tetco ELA/AGT	Dth	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	
Columbia/AGT	Dth	144	144	144	144	144	144	144	144	144	144	144	144	
Total		**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	**30,641**	
System Weighted Average cost per MMBtu		**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	**$16.8895**	
Total Demand Charge Credit		**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$6,210,145**
Demand Costs Net of Releases to Marketers	**$**	**$3,211,248**	**$3,449,789**	**$3,448,450**	**$3,446,826**	**$3,315,450**	**$3,925,971**	**$3,926,512**	**$3,925,971**	**$3,926,512**	**$3,926,512**	**$3,925,971**	**$3,926,512**	**$44,355,723**
TOTAL PIPELINE DEMANDS	**$**	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL STORAGE FACILITIES DEMANDS	**$**	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL STORAGE DELIVERY DEMANDS	**$**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$435,155**	**$5,221,856**
TOTAL SUPPLIER DEMANDS	**$**	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Total All Demands	**$**	**$3,728,760**	**$3,967,301**	**$3,965,962**	**$3,964,338**	**$3,832,962**	**$4,443,483**	**$4,444,024**	**$4,443,483**	**$4,444,024**	**$4,444,024**	**$4,443,483**	**$4,444,024**	**$50,565,867**
Marketer Release Credits	**$**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$517,512**	**$6,210,145**
NGPMP Credit		**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$6,900,000**
Demand Net of Releases	**$**	**$2,636,248**	**$2,874,789**	**$2,873,450**	**$2,871,826**	**$2,740,450**	**$3,350,971**	**$3,351,512**	**$3,350,971**	**$3,351,512**	**$3,351,512**	**$3,350,971**	**$3,351,512**	**$37,455,723**

REDACTED VERSION

Storage Product Cost

	Nov	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	
WACOG INJECTIONS	$3.178	$4.261	$4.827	$5.122	$3.809	$2.955	$2.662	$2.766	$2.658	$2.675	$2.375	$2.439	
Injection cost	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	$0.028	
Total injection cost	$3.206	$4.289	$4.855	$5.150	$3.837	$2.983	$2.690	$2.794	$2.686	$2.703	$2.403	$2.467	
COMBINED STORAGE	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	
Beginning Inv Vol	4,589,643	4,396,343	3,564,043	2,650,343	1,806,143	1,041,443	1,516,043	2,009,043	2,526,843	2,994,843	3,488,743	4,068,543	
Vol Withdrawn	193,300	832,300	913,700	844,200	764,700	10,200	600	0	0	0	0	0	3,559,000
Vol Injected	0	0	0	0	0	484,800	493,600	517,800	468,000	493,900	579,800	521,000	3,558,900
Begining Inv $ (virtual)	$18,078,145	$17,333,766	$14,052,199	$10,449,691	$7,121,205	$4,106,169	$5,512,113	$6,837,609	$8,284,276	$9,541,429	$10,876,377	$12,269,448	
$ Withdrawn (1)	$744,379	$3,049,113	$3,347,321	$3,092,709	$2,801,462	$40,216	$2,182	$0	$0	$0	$0	$0	$13,077,382
$ Injected	$0	$0	$0	$0	$0	$1,446,160	$1,327,677	$1,446,667	$1,257,153	$1,334,947	$1,393,071	$1,285,078	$9,490,754
Ending Vol	4,396,343	3,564,043	2,650,343	1,806,143	1,041,443	1,516,043	2,009,043	2,526,843	2,994,843	3,488,743	4,068,543	4,589,543	
Ending $	$17,333,766	$14,052,199	$10,449,691	$7,121,205	$4,106,169	$5,512,113	$6,837,609	$8,284,276	$9,541,429	$10,876,377	$12,269,448	$13,554,526	
Avg $/Mmbtu	$3.9428	$3.9428	$3.9428	$3.9428	$3.9428	$3.6359	$3.4034	$3.2785	$3.1860	$3.1176	$3.0157	$2.9533	
Withdrawal cost	**$3,049**	**$28,005**	**$29,375**	**$28,146**	**$24,738**	**$126**	**$9**	**$0**	**$0**	**$0**	**$0**	**$0**	**$113,448**
Transportation cost	**$13,995**	**$45,230**	**$47,103**	**$42,335**	**$43,268**	**$669**	**$17**	**$0**	**$0**	**$0**	**$0**	**$0**	**$192,617**
Costs allocated to fuel	**$13,800**	**$96,992**	**$105,666**	**$97,781**	**$85,952**	**$1,091**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$401,282**
Storage value Less fuel	**$730,579**	**$2,952,121**	**$3,241,654**	**$2,994,928**	**$2,715,510**	**$39,125**	**$2,182**	**$0**	**$0**	**$0**	**$0**	**$0**	**$12,676,100**
Delivered Volumes	189,800	807,700	886,900	819,400	742,900	9,900	600	0	0	0	0	0	3,457,200
Hedge Amortization	-$53,987	-$232,453	-$255,188	-$235,777	-$213,573	-$2,849	-$168	$0	$0	$0	$0	$0	-$993,994

- amortization of hedges on injection gas
($993,994)

(1) Includes Hedge Amortization
3,559,000 Withdrawal

REDACTED VERSION

Storage Withdrawal variable costs
2014-2015 GCR Storage estimate

Storage Withdrawals at Facility Dth	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
TENN_501	7,700	157,800	159,300	99,900	133,200	2,000	0	0	0	0	0	0	559,900
GSS 300170	1,400	113,800	122,200	91,200	80,400	0	0	0	0	0	0	0	409,000
GSS 300168	25,500	36,400	26,600	28,900	28,400	0	0	0	0	0	0	0	145,800
GSS 300171	0	28,900	69,900	59,700	24,700	0	0	0	0	0	0	0	183,200
GSS-TE 600045	78,300	80,900	80,900	73,100	80,900	0	0	0	0	0	0	0	394,100
TETCO_400515	0	14,088	14,088	14,088	12,401	0	0	0	0	0	0	0	54,665
TETCO_400221	0	288,120	288,120	288,120	253,584	0	0	0	0	0	0	0	1,117,943
TETCO 400185	0	12,611	12,611	12,611	11,059	0	0	0	0	0	0	0	48,893
GSS 300169	0	49,000	55,600	54,700	39,400	0	0	0	0	0	0	0	198,700
COL FSS 9630	0	41,300	75,000	54,500	27,100	5,600	600	0	0	0	0	0	204,100
TENN_62918	80,400	0	0	58,000	65,300	2,600	0	0	0	0	0	0	206,300
TOTAL	193,300	822,919	904,319	834,819	756,445	10,200	600	0	0	0	0	0	3,522,601

STORAGE WITHDRAWAL PRICES												
Tennessee Withdrawal	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087
Dominion GSS Withdrawal	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182	$0.0182
Dominion GSS-TE Withdrawal	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229	$0.0229
Tetco SS-1 Withdrawal	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646	$0.0646
Tetco FSS-1 Withdrawal	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404	$0.0404
Columbia Withdrawal	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153

Withdrawal Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Tennessee Withdrawal	$766	$1,373	$1,386	$1,374	$1,727	$40	$0	$0	$0	$0	$0	$0	$6,666
Dominion GSS Withdrawal	$490	$4,151	$4,992	$4,268	$3,147	$0	$0	$0	$0	$0	$0	$0	$17,048
Dominion GSS-TE Withdrawal	$1,793	$1,853	$1,853	$1,674	$1,853	$0	$0	$0	$0	$0	$0	$0	$9,025
Tetco SS-1 Withdrawal	$0	$19,427	$19,427	$19,427	$17,096	$0	$0	$0	$0	$0	$0	$0	$75,378
Tetco FSS-1 Withdrawal	$0	$569	$569	$569	$501	$0	$0	$0	$0	$0	$0	$0	$2,208
Columbia Withdrawal	$0	$632	$1,148	$834	$415	$86	$9	$0	$0	$0	$0	$0	$3,123
Total	$3,049	$28,005	$29,375	$28,146	$24,738	$126	$9	$0	$0	$0	$0	$0	$113,448

Storage Withdrawals at Gate Dth	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
TENN_501	7,600	155,600	157,100	98,500	131,300	1,900	0	0	0	0	0	0	552,000
GSS 300170	1,400	110,000	118,200	88,200	77,700	0	0	0	0	0	0	0	395,500
GSS 300168	25,100	35,900	26,200	28,500	28,000	0	0	0	0	0	0	0	143,700
GSS 300171	0	28,200	68,300	58,400	24,200	0	0	0	0	0	0	0	179,100
GSS-TE 600045	76,400	78,900	78,900	71,300	78,900	0	0	0	0	0	0	0	384,400
TETCO_400515	0	13,400	13,400	13,400	11,800	0	0	0	0	0	0	0	52,000
TETCO_400221	0	285,500	285,300	285,300	251,000	0	0	0	0	0	0	0	1,107,100
TETCO 400185	0	12,500	12,500	12,500	11,000	0	0	0	0	0	0	0	48,500
GSS 300169	0	47,600	54,100	53,200	38,300	0	0	0	0	0	0	0	193,200
COL FSS 9630	0	40,100	72,900	52,900	26,300	5,400	600	0	0	0	0	0	198,200
TENN_62918	79,300	0	0	57,200	64,400	2,600	0	0	0	0	0	0	203,500
TOTAL	189,800	807,700	886,900	819,400	742,900	9,900	600	0	0	0	0	0	3,457,200

Storage Transportation Prices												
Tennessee Transportation	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140
Dominion Trans on Tetco/AGT	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136	$0.0136
Dominion Trans on DTI/Tetco/AGT	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338	$0.0338
Dominion Trans on Tennessee	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140
Dominion Trans on DTI/Tennessee	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342	$0.1342
Tetco SS-1 Trans	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124
Tetco FSS-1 Trans	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539	$0.0539
Columbia Trans	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288	$0.0288

Storage Transportation Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Tennessee Transportation	$9,907	$17,738	$17,909	$17,750	$22,310	$513	$0	$0	$0	$0	$0	$0	$86,127
Dominion Trans on Tetco/AGT	$1,039	$1,457	$2,002	$1,764	$1,402	$0	$0	$0	$0	$0	$0	$0	$7,664
Dominion Trans on DTI/Tetco/AGT	$0	$1,609	$1,829	$1,798	$1,295	$0	$0	$0	$0	$0	$0	$0	$6,530
Dominion Trans on Tennseess	$2,861	$4,093	$2,987	$3,249	$3,192	$0	$0	$0	$0	$0	$0	$0	$16,382
Dominion Trans on DTI/Tennessee	$188	$14,762	$15,862	$11,836	$10,427	$0	$0	$0	$0	$0	$0	$0	$53,076
Tetco SS-1 Trans	$0	$3,695	$3,693	$3,693	$3,249	$0	$0	$0	$0	$0	$0	$0	$14,329
Tetco FSS-1 Trans	$0	$722	$722	$722	$636	$0	$0	$0	$0	$0	$0	$0	$2,801
Columbia Trans	$0	$1,155	$2,100	$1,524	$757	$156	$17	$0	$0	$0	$0	$0	$5,708
Total	$13,995	$45,230	$47,103	$42,335	$43,268	$669	$17	$0	$0	$0	$0	$0	$192,617

Total Variable	$17,044	$73,235	$76,478	$70,481	$68,006	$794	$26	$0	$0	$0	$0	$0	$306,065

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-2
Redacted
September 2, 2014
Page 17 of 17

REDACTED VERSION

NATIONAL GRID - RI SERVICE AREA
NOVEMBER 2014 - OCTOBER 2015

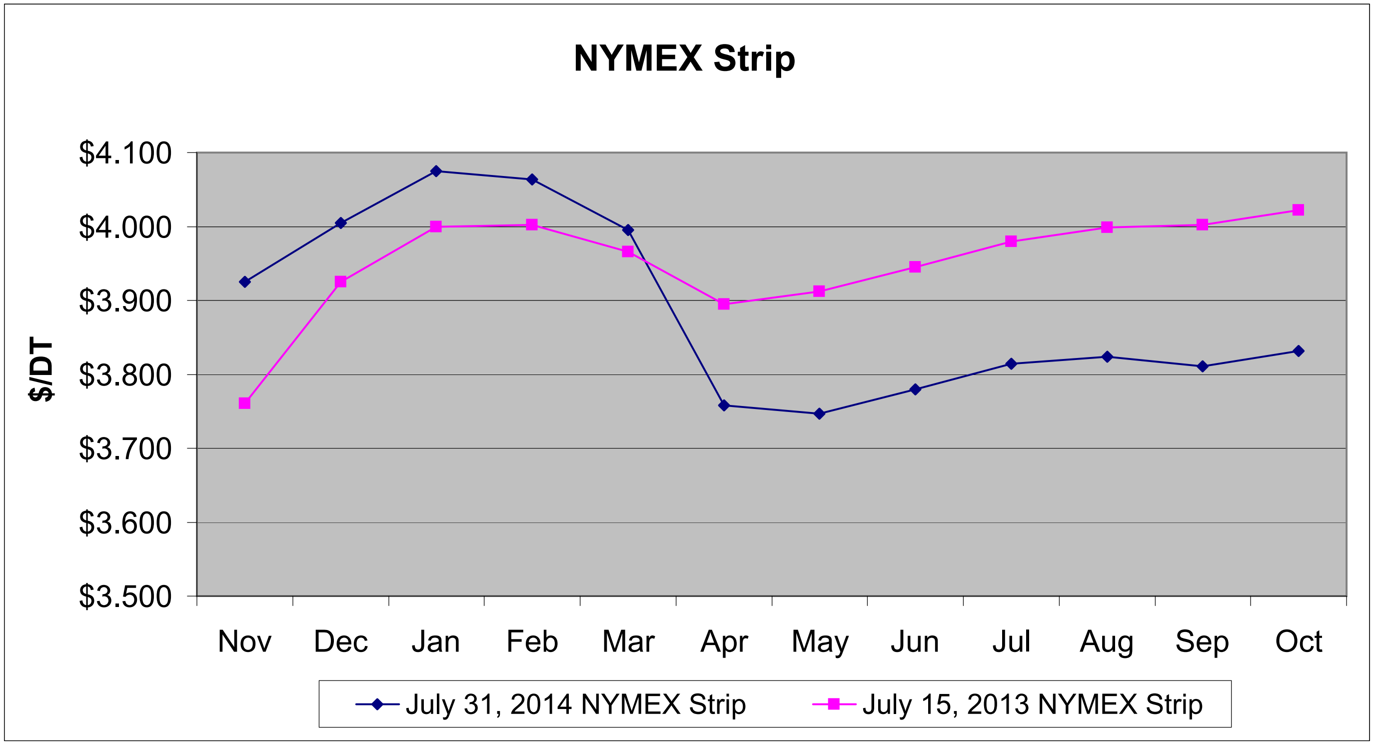
LNG Estimate for 2014 - 2015

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
07/31/2014 NYMEX	$3.925	$4.005	$4.075	$4.064	$3.995	$3.758	$3.747	$3.780	$3.814	$3.824	$3.811	$3.832	
Trucking	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Basis NSB contract - Winter	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Delivered Cost NSB - Winter	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Basis NSB contract - Summer	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Delivered Cost NSB - Summer	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Combined LNG Inv													
Beginning Inv Vol	888,000	870,400	843,100	344,700	177,900	156,100	153,000	289,800	345,100	481,900	618,700	751,100	
Vol Injected - winter	0	0	0	0	0	0	0	0	0	0	0	0	0
Vol Injected - summer	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
Vol Withdrawn	17,600	27,300	498,400	166,800	21,800	17,600	18,200	17,600	18,200	18,200	17,600	18,200	857,500
$ Begining Inv 11/1/14	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
$ Injected	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
$ Withdrawn	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Ending Vol	870,400	843,100	344,700	177,900	156,100	153,000	289,800	345,100	481,900	618,700	751,100	888,000	
Ending $	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Avg $/Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Newport													
Newport LNG Vol Vapor	0	0	0	0	0	0	0	0	0	0	0	0	
Avg $/Dth	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
Total cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total All LNG Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Attachment EDA-3

EDA-3 NYMEX Strip Comparison

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
July 15, 2013 NYMEX Strip	**$3.761**	**$3.925**	**$4.000**	**$4.002**	**$3.966**	**$3.895**	**$3.912**	**$3.945**	**$3.980**	**$3.999**	**$4.002**	**$4.022**
July 31, 2014 NYMEX Strip	**$3.925**	**$4.005**	**$4.075**	**$4.064**	**$3.995**	**$3.758**	**$3.747**	**$3.780**	**$3.814**	**$3.824**	**$3.811**	**$3.832**



Attachment EDA-4
REDACTED

EDA-4 Assignment of Pipeline Capacity - **REDACTED Information**

PRELIMINARY **PRELIMINARY**

National Grid
Summary of Transportation Capacity Release
Pipeline Path Availability and Pricing
November 2014 - October 2015

12 Month Forward Pricing

Path to City Gate	As of 8/1/14 Existing Releases	Total Available	Remaining Available	Cost per Dth	New Credit or Surcharge	Old Credit or Surcharge
Company Weighted Average				**$0.4080**		
Tennessee Zone 1	9,499	9,500	1	$1.1079	($0.6999)	($0.2280)
Algonquin @ Lambertville, NJ	2,316	2,714	398	$0.0524	$0.3556	$0.6639
Texas Eastern - South Texas Algonquin @ Lambertville, NJ	3,682	4,044	362	$1.3049	($0.8969)	($0.2812)
Texas Eastern - West La Algonquin @ Lambertville, NJ	8,500	8,500	0	$1.0177	($0.6097)	($0.0881)
Texas Eastern - East La Algonquin @ Lambertville, NJ	6,500	6,500	0	$0.9217	($0.5137)	$0.0138
Columbia (Maumee/Downington) at 5:1 ratio*	144	1,500	1,356	$0.2686	$0.1394	$0.5681
Totals:	30,641	32,758	2,117			

* Note: Marketers selecting this path are assigned 5/6 of the amount selected at the Maumee, Ohio receipt point into Columbia and 1/6 at the Downington, Pa. Receipt into Columbia.

REDACTED VERSION

Gas Year 2014 - 2015
TEXAS EASTERN SOUTH TEXAS SUPPLY PATH COST MATRIX
CITY GATE DELIVERED MDQ = 4,044

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
					UNIT PRICING									
FIXED														
TETCO STX SUPPLY ZONE DEMAND	$/Dth	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	
TECCO WLA SUPPLY ZONE DEMAND	$/Dth	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	
TETCO M1 TO M3 DEMAND	$/Dth	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	
ALGONQUIN AFT-E DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	
VARIABLE														
TETCO USAGE STX TO M3	$/Dth	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	
ALGONQUIN USAGE	$/Dth	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
07/31/2014 NYMEX	$/Dth	$3.9250	$4.0050	$4.0750	$4.0640	$3.9950	$3.7580	$3.7470	$3.7800	$3.8140	$3.8240	$3.8110	$3.8320	
SUPPLY AREA BASIS	$/Dth	($0.0830)	($0.0900)	($0.0670)	($0.0650)	($0.0570)	($0.0120)	($0.0030)	($0.0120)	$0.0080	$0.0080	($0.0130)	($0.0120)	
NET COST AFTER BASIS	$/Dth	$3.8420	$3.9150	$4.0080	$3.9990	$3.9380	$3.7460	$3.7440	$3.7680	$3.8220	$3.8320	$3.7980	$3.8200	
					BILLING UNITS									
FIXED														
TETCO STX SUPPLY ZONE DEMAND	$/Dth	4,077	4,081	4,081	4,081	4,081	4,077	4,077	4,077	4,077	4,077	4,077	4,077	
TECCO WLA SUPPLY ZONE DEMAND	$/Dth	4,077	4,081	4,081	4,081	4,081	4,077	4,077	4,077	4,077	4,077	4,077	4,077	
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	4,077	4,081	4,081	4,081	4,081	4,077	4,077	4,077	4,077	4,077	4,077	4,077	
TETCO M1 TO M3 DEMAND	$/Dth	4,077	4,081	4,081	4,081	4,081	4,077	4,077	4,077	4,077	4,077	4,077	4,077	
ALGONQUIN AFT-E DEMAND	$/Dth	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	48,528
VARIABLE														
PURCHASE VOLUMES	Dth	129,883	135,848	135,848	122,701	135,848	129,883	134,212	129,883	134,212	134,212	129,883	134,212	1,586,626
TETCO USAGE STX TO M3	Dth	122,311	126,515	126,515	114,272	126,515	122,311	126,388	122,311	126,388	126,388	122,311	126,388	1,488,612
ALGONQUIN USAGE	Dth	121,320	125,364	125,364	113,232	125,364	121,320	125,364	121,320	125,364	125,364	121,320	125,364	1,476,060
DELIVERED VOLUMES	Dth	121,320	125,364	125,364	113,232	125,364	121,320	125,364	121,320	125,364	125,364	121,320	125,364	1,476,060
					FUEL USE %									
TETCO STX TO M3 FUEL	%	5.83%	6.87%	6.87%	6.87%	6.87%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	
ALGONQUIN AFT-E FUEL	%	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
					TRANSPORTATION COST									
FIXED														
TETCO STX SUPPLY ZONE DEMAND	$	$27,736	$27,764	$27,764	$27,764	$27,764	$27,736	$27,736	$27,736	$27,736	$27,736	$27,736	$27,736	$332,944
TECCO WLA SUPPLY ZONE DEMAND	$	$11,514	$11,525	$11,525	$11,525	$11,525	$11,514	$11,514	$11,514	$11,514	$11,514	$11,514	$11,514	$138,209
TETCO ELA SUPPLY ZONE DEMAND	$	$9,679	$9,689	$9,689	$9,689	$9,689	$9,679	$9,679	$9,679	$9,679	$9,679	$9,679	$9,679	$116,185
TETCO M1 TO M3 DEMAND	$	$41,842	$41,885	$41,885	$41,885	$41,885	$41,842	$41,842	$41,842	$41,842	$41,842	$41,842	$41,842	$502,279
ALGONQUIN AFT-E DEMAND	$	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$311,613
VARIABLE														
TETCO USAGE STX TO M3	$	$10,568	$10,931	$10,931	$9,873	$10,931	$10,568	$10,920	$10,568	$10,920	$10,920	$10,568	$10,920	$128,616
ALGONQUIN USAGE	$	$1,504	$1,555	$1,555	$1,404	$1,555	$1,504	$1,555	$1,504	$1,555	$1,555	$1,504	$1,555	$18,303
PURCHASE COST	$	$499,010	$531,845	$544,479	$490,683	$534,970	$486,541	$502,491	$489,399	$512,959	$514,302	$493,295	$512,691	$6,112,665
TOTAL FIXED	$	$116,739	$116,830	$116,830	$116,830	$116,830	$116,739	$116,739	$116,739	$116,739	$116,739	$116,739	$116,739	$1,401,230
TOTAL VARIABLE	$	$511,082	$544,331	$556,964	$501,960	$547,455	$498,613	$514,965	$501,471	$525,434	$526,776	$505,367	$525,165	$6,259,584
DELIVERED COST AT NYMEX	$	$476,181	$502,083	$510,858	$460,175	$500,829	$455,921	$469,739	$458,590	$478,138	$479,392	$462,351	$480,395	$5,734,651
NET NON-GAS VARIABLE COST	$	$34,901	$42,248	$46,106	$41,785	$46,626	$42,693	$45,226	$42,881	$47,296	$47,384	$43,017	$44,771	$524,934
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.2877**	**$0.3370**	**$0.3678**	**$0.3690**	**$0.3719**	**$0.3519**	**$0.3608**	**$0.3535**	**$0.3773**	**$0.3780**	**$0.3546**	**$0.3571**	**$0.3556**
AVERAGE FIXED COST	$/Dth													$28.8747
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.9493**
TOTAL PATH COST	$/Dth													**$1.3049**

REDACTED VERSION

Gas Year 2014 - 2015
TEXAS EASTERN WEST LOUISIANA SUPPLY PATH TO ALGONQUIN CITY GATE
CITY GATE DELIVERED MDQ = 8,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
TETCO WLA SUPPLY ZONE DEMAND	$/Dth	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	
TETCO M1 TO M3 DEMAND	$/Dth	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	
ALGONQUIN AFT-E DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	
VARIABLE														
TETCO USAGE WLA TO M3	$/Dth	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
ALGONQUIN USAGE	$/Dth	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
07/31/2014 NYMEX	$/Dth	$3.9250	$4.0050	$4.0750	$4.0640	$3.9950	$3.7580	$3.7470	$3.7800	$3.8140	$3.8240	$3.8110	$3.8320	
SUPPLY AREA BASIS	$/Dth	($0.1020)	($0.0630)	($0.0770)	($0.0390)	($0.0190)	$3.8860	($1.8640)	($2.2610)	($0.8240)	($0.1410)	($1.2110)	$1.6990	
NET COST AFTER BASIS	$/Dth	$3.8230	$3.9420	$3.9980	$4.0250	$3.9760	$7.6440	$1.8830	$1.5190	$2.9900	$3.6830	$2.6000	$5.5310	
BILLING UNITS														
FIXED														
TETCO WLA SUPPLY ZONE DEMAND	Dth	8,569	8,578	8,578	8,578	8,578	8,569	8,569	8,569	8,569	8,569	8,569	8,569	
TETCO ELA SUPPLY ZONE DEMAND	Dth	8,569	8,578	8,578	8,578	8,578	8,569	8,569	8,569	8,569	8,569	8,569	8,569	
TETCO M1 TO M3 DEMAND	Dth	8,569	8,578	8,578	8,578	8,578	8,569	8,569	8,569	8,569	8,569	8,569	8,569	
ALGONQUIN AFT-E DEMAND	Dth	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	102,000
VARIABLE														
PURCHASE VOLUMES	Dth	273,143	285,720	285,720	258,070	285,720	273,143	282,248	273,143	282,248	282,248	273,143	282,248	3,336,795
TETCO USAGE WLA TO M3	Dth	257,082	265,920	265,920	240,186	265,920	257,082	265,652	257,082	265,652	265,652	257,082	265,652	3,128,882
ALGONQUIN USAGE	Dth	255,000	263,500	263,500	238,000	263,500	255,000	263,500	255,000	263,500	263,500	255,000	263,500	3,102,500
DELIVERED VOLUMES	Dth	255,000	263,500	263,500	238,000	263,500	255,000	263,500	255,000	263,500	263,500	255,000	263,500	3,102,500
FUEL USE %														
TETCO WLA TO M3 FUEL	%	5.88%	6.93%	6.93%	6.93%	6.93%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	
ALGONQUIN AFT-E FUEL	%	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
TRANSPORTATION COST														
FIXED														
TETCO WLA SUPPLY ZONE DEMAND	$	$24,200	$24,224	$24,224	$24,224	$24,224	$24,200	$24,200	$24,200	$24,200	$24,200	$24,200	$24,200	$290,498
TETCO ELA SUPPLY ZONE DEMAND	$	$20,344	$20,364	$20,364	$20,364	$20,364	$20,344	$20,344	$20,344	$20,344	$20,344	$20,344	$20,344	$244,208
TETCO M1 TO M3 DEMAND	$	$87,948	$88,037	$88,037	$88,037	$88,037	$87,948	$87,948	$87,948	$87,948	$87,948	$87,948	$87,948	$1,055,730
ALGONQUIN AFT-E DEMAND	$	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$654,973
VARIABLE														
TETCO USAGE WLA TO M3	$	$20,592	$21,300	$21,300	$19,239	$21,300	$20,592	$21,279	$20,592	$21,279	$21,279	$20,592	$21,279	$250,623
ALGONQUIN USAGE	$	$3,162	$3,267	$3,267	$2,951	$3,267	$3,162	$3,267	$3,162	$3,267	$3,267	$3,162	$3,267	$38,471
PURCHASE COST	$	$1,044,226	$1,126,309	$1,142,310	$1,038,731	$1,136,024	$2,087,907	$531,473	$414,905	$843,921	$1,039,519	$710,172	$1,561,113	$12,676,611
TOTAL FIXED	$	$187,073	$187,206	$187,206	$187,206	$187,206	$187,073	$187,073	$187,073	$187,073	$187,073	$187,073	$187,073	$2,245,408
TOTAL VARIABLE	$	$1,067,981	$1,150,877	$1,166,877	$1,060,922	$1,160,591	$2,111,661	$556,019	$438,659	$868,468	$1,064,065	$733,927	$1,585,660	$12,965,706
DELIVERED VOLUMES AT NYMEX	$	$1,000,875	$1,055,318	$1,073,763	$967,232	$1,052,683	$958,290	$987,335	$963,900	$1,004,989	$1,007,624	$971,805	$1,009,732	$12,053,544
NET NON-GAS VARIABLE COST	$	$67,106	$95,559	$93,115	$93,690	$107,909	$1,153,371	-$431,315	-$525,241	-$136,521	$56,441	-$237,878	$575,928	$912,162
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.2632**	**$0.3627**	**$0.3534**	**$0.3937**	**$0.4095**	**$4.5230**	**-$1.6369**	**-$2.0598**	**-$0.5181**	**$0.2142**	**-$0.9329**	**$2.1857**	**$0.2940**
AVERAGE FIXED COST	$/Dth													$22.0138
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.7237**
TOTAL PATH COST	$/Dth													**$1.0177**

REDACTED VERSION

Gas Year 2014 - 2015
TEXAS EASTERN EAST LOUISIANA SUPPLY PATH TO ALGONQUIN CITY GATE
CITY GATE DELIVERED MDQ = 6,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
					UNIT PRICING									
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	
TETCO M1 TO M3 DEMAND	$/Dth	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	
ALGONQUIN AFT-E DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	
VARIABLE														
TETCO USAGE ELA TO M3	$/Dth	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
ALGONQUIN USAGE	$/Dth	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
07/31/2014 NYMEX	$/Dth	$3.9250	$4.0050	$4.0750	$4.0640	$3.9950	$3.7580	$3.7470	$3.7800	$3.8140	$3.8240	$3.8110	$3.8320	
SUPPLY AREA BASIS	$/Dth	($0.0550)	($0.0750)	($0.0610)	($0.0780)	($0.0450)	($0.1100)	($0.1200)	($0.1070)	($0.1030)	($0.1100)	($0.0970)	($0.1070)	
NET COST AFTER BASIS	$/Dth	$3.8700	$3.9300	$4.0140	$3.9860	$3.9500	$3.6480	$3.6270	$3.6730	$3.7110	$3.7140	$3.7140	$3.7250	
					BILLING UNITS									
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	Dth	6,553	6,560	6,560	6,560	6,560	6,553	6,553	6,553	6,553	6,553	6,553	6,553	
TETCO M1 TO M3 DEMAND	Dth	6,553	6,560	6,560	6,560	6,560	6,553	6,553	6,553	6,553	6,553	6,553	6,553	
ALGONQUIN AFT-E DEMAND	Dth	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	78,000
VARIABLE														
PURCHASE VOLUMES	Dth	208,874	218,492	218,492	197,348	218,492	208,874	215,837	208,874	215,837	215,837	208,874	215,837	2,551,667
TETCO USAGE ELA TO M3	Dth	196,592	203,350	203,350	183,671	203,350	196,592	203,145	196,592	203,145	203,145	196,592	203,145	2,392,674
ALGONQUIN USAGE	Dth	195,000	201,500	201,500	182,000	201,500	195,000	201,500	195,000	201,500	201,500	195,000	201,500	2,372,500
DELIVERED VOLUMES	Dth	195,000	201,500	201,500	182,000	201,500	195,000	201,500	195,000	201,500	201,500	195,000	201,500	2,372,500
					FUEL USE %									
TETCO ELA TO M3 FUEL	%	5.88%	6.93%	6.93%	6.93%	6.93%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	
ALGONQUIN AFT-E FUEL	%	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
					TRANSPORTATION COST									
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	$	$15,557	$15,573	$15,573	$15,573	$15,573	$15,557	$15,557	$15,557	$15,557	$15,557	$15,557	$15,557	$186,747
TETCO M1 TO M3 DEMAND	$	$67,254	$67,322	$67,322	$67,322	$67,322	$67,254	$67,254	$67,254	$67,254	$67,254	$67,254	$67,254	$807,323
ALGONQUIN AFT-E DEMAND	$	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$500,861
VARIABLE														
TETCO USAGE ELA TO M3	$	$15,747	$16,288	$16,288	$14,712	$16,288	$15,747	$16,272	$15,747	$16,272	$16,272	$15,747	$16,272	$191,653
ALGONQUIN USAGE	$	$2,418	$2,499	$2,499	$2,257	$2,499	$2,418	$2,499	$2,418	$2,499	$2,499	$2,418	$2,499	$29,419
PURCHASE COST	$	$808,343	$858,673	$877,027	$786,628	$863,043	$761,973	$782,840	$767,195	$800,970	$801,617	$775,759	$803,992	$9,688,060
TOTAL FIXED	$	$124,550	$124,633	$124,633	$124,633	$124,633	$124,550	$124,550	$124,550	$124,550	$124,550	$124,550	$124,550	$1,494,931
TOTAL VARIABLE	$	$826,508	$877,460	$895,814	$803,596	$881,830	$780,138	$801,610	$785,360	$819,740	$820,388	$793,924	$822,762	$9,909,132
DELIVERED VOLUMES AT NYMEX	$	$765,375	$807,008	$821,113	$739,648	$804,993	$732,810	$755,021	$737,100	$768,521	$770,536	$743,145	$772,148	$9,217,416
NET NON-GAS VARIABLE COST	$	$61,133	$70,453	$74,701	$63,948	$76,838	$47,328	$46,590	$48,260	$51,219	$49,852	$50,779	$50,614	$691,716
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.3135**	**$0.3496**	**$0.3707**	**$0.3514**	**$0.3813**	**$0.2427**	**$0.2312**	**$0.2475**	**$0.2542**	**$0.2474**	**$0.2604**	**$0.2512**	**$0.2916**
AVERAGE FIXED COST	$/Dth													$19.1658
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.6301**
TOTAL PATH COST	$/Dth													**$0.9217**

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-4
Redacted
September 2, 2014
Page 5 of 18

REDACTED VERSION

Gas Year 2014 - 2015
MAUMEE/DOWNINGTON COLUMBIA PATH TO CITY GATE
CITY GATE DELIVERED MDQ = 1,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
					UNIT PRICING									
FIXED														
COLUMBIA FTS DEMAND	$/Dth	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	
ALGONQUIN DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	
VARIABLE														
COLUMBIA USAGE	$/Dth	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
ALGONQUIN USAGE	$/Dth	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
07/31/2014 NYMEX	$/Dth	$3.9250	$4.0050	$4.0750	$4.0640	$3.9950	$3.7580	$3.7470	$3.7800	$3.8140	$3.8240	$3.8110	$3.8320	
SUPPLY BASIS MAUMEE	$/Dth	($0.1200)	($0.1550)	($0.1800)	($0.1700)	($0.1750)	($0.1120)	($0.1450)	($0.2150)	($0.2800)	($0.3500)	($0.5470)	($0.5120)	
SUPPLY BASIS DOWNINGTON	$/Dth	($0.4100)	$0.9200	$2.1230	$3.3250	$0.0850	($0.6280)	($1.0150)	($1.0000)	($0.7080)	($0.7380)	($1.1130)	($1.0700)	
NET COST AFTER BASIS MAUMEE	$/Dth	$3.8050	$3.8500	$3.8950	$3.8940	$3.8200	$3.6460	$3.6020	$3.5650	$3.5340	$3.4740	$3.2640	$3.3200	
NET COST AFTER BASIS DOWNINGTON	$/Dth	$3.5150	$4.9250	$6.1980	$7.3890	$4.0800	$3.1300	$2.7320	$2.7800	$3.1060	$3.0860	$2.6980	$2.7620	
					BILLING UNITS									
FIXED														
COLUMBIA FTS DEMAND	Dth	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	1,529	
ALGONQUIN DEMAND	Dth	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,000
VARIABLE														
PURCHASE VOLUMES MAUMEE	Dth	38,545	39,106	39,106	35,321	39,106	37,806	39,066	37,806	39,066	39,066	37,806	39,066	
PURCHASE VOLUMES DOWNINGTON	Dth	7,709	7,821	7,821	7,064	7,821	7,561	7,813	7,561	7,813	7,813	7,561	7,813	
COLUMBIA USAGE	Dth	45,367	46,927	46,927	42,386	46,927	45,367	46,880	45,367	46,880	46,880	45,367	46,880	
ALGONQUIN USAGE	Dth	45,000	46,500	46,500	42,000	46,500	45,000	46,500	45,000	46,500	46,500	45,000	46,500	
DELIVERED VOLUMES MAUMEE	Dth	37,500	38,750	38,750	35,000	38,750	37,500	38,750	37,500	38,750	38,750	37,500	38,750	456,250
DELIVERED VOLUMES DOWNINGTON	Dth	7,500	7,750	7,750	7,000	7,750	7,500	7,750	7,500	7,750	7,750	7,500	7,750	91,250
					FUEL USE %									
COLUMBIA FUEL	%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
ALGONQUIN AFT-E FUEL	%	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
					TRANSPORTATION COST									
FIXED														
COLUMBIA FTS DEMAND	$	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$9,280	$111,359
ALGONQUIN DEMAND	$	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$115,583
VARIABLE														
COLUMBIA USAGE	$	$753	$779	$779	$704	$779	$753	$778	$753	$778	$778	$753	$778	$9,166
ALGONQUIN USAGE	$	$558	$577	$577	$521	$577	$558	$577	$558	$577	$577	$558	$577	$6,789
PURCHASE COST MAUMEE	$	$146,664	$150,558	$152,317	$137,542	$149,384	$137,842	$140,717	$134,779	$138,061	$135,717	$123,400	$129,701	$1,676,681
PURCHASE COST DOWNINGTON	$	$27,097	$38,519	$48,476	$52,198	$31,910	$23,667	$21,346	$21,020	$24,268	$24,112	$20,400	$21,580	$354,594
TOTAL FIXED	$	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$18,912	$226,942
TOTAL VARIABLE	$	$175,073	$190,432	$202,149	$190,964	$182,650	$162,819	$163,418	$157,111	$163,684	$161,183	$145,111	$152,636	$2,047,230
DELIVERED VOLUMES AT NYMEX	$	$176,625	$186,233	$189,488	$170,688	$185,768	$169,110	$174,236	$170,100	$177,351	$177,816	$171,495	$178,188	$2,127,096
NET NON-GAS VARIABLE COST	$	-$1,552	$4,200	$12,661	$20,276	-$3,117	-$6,291	-$10,817	-$12,989	-$13,667	-$16,633	-$26,384	-$25,552	-$79,866
AVERAGE NON-GAS VARIABLE COST	$/Dth	**-$0.0345**	**$0.0903**	**$0.2723**	**$0.4828**	**-$0.0670**	**-$0.1398**	**-$0.2326**	**-$0.2887**	**-$0.2939**	**-$0.3577**	**-$0.5863**	**-$0.5495**	**-$0.1459**
AVERAGE FIXED COST	$/Dth													$12.6079
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.4145**
TOTAL PATH COST	$/Dth													**$0.2686**

Gas Year 2014 - 2015
TENNESSEE ZONE 1 TO CITY GATE
CITY GATE DELIVERED MDQ = 9,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
						UNIT PRICING								
FIXED														
TENNESSEE ZONE 1 TO 6 DEMAND	$/Dth	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	
VARIABLE														
TENNESSE ZONE 1 TO 6 USAGE	$/Dth	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	
07/31/2014 NYMEX	$/Dth	$3.9250	$4.0050	$4.0750	$4.0640	$3.9950	$3.7580	$3.7470	$3.7800	$3.8140	$3.8240	$3.8110	$3.8320	
SUPPLY AREA BASIS	$/Dth	($0.0575)	($0.0730)	($0.0475)	($0.0490)	($0.0440)	($0.0870)	($0.0735)	($0.0715)	($0.0885)	($0.0735)	($0.0865)	($0.1050)	
NET COST AFTER BASIS	$/Dth	$3.8675	$3.9320	$4.0275	$4.0150	$3.9510	$3.6710	$3.6735	$3.7085	$3.7255	$3.7505	$3.7245	$3.7270	
						BILLING UNITS								
FIXED														
TENNESSEE ZONE 1 TO 6 DEMAND	Dth	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	114,000
VARIABLE														
PURCHASE VOLUMES	Dth	297,061	306,963	306,963	277,257	306,963	297,061	306,963	297,061	306,963	306,963	297,061	306,963	3,614,238
TENNESSEE ZONE 1 TO 6 USAGE	Dth	285,000	294,500	294,500	266,000	294,500	285,000	294,500	285,000	294,500	294,500	285,000	294,500	3,467,500
DELIVERED VOLUMES	Dth	285,000	294,500	294,500	266,000	294,500	285,000	294,500	285,000	294,500	294,500	285,000	294,500	3,467,500
						FUEL USE %								
TENNESSEE ZONE 1 TO 6 FUEL	%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	
						TRANSPORTATION COST								
FIXED														
TENNESSEE ZONE 1 TO 6 DEMAND	$	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$2,515,057
VARIABLE														
TENNESSEE ZONE 1 TO 6 USAGE	$	$83,420	$86,200	$86,200	$77,858	$86,200	$83,420	$86,200	$83,420	$86,200	$86,200	$83,420	$86,200	$1,014,937
PURCHASE COST	$	$1,148,882	$1,206,977	$1,236,292	$1,113,185	$1,212,810	$1,090,510	$1,127,627	$1,101,649	$1,143,589	$1,151,264	$1,106,402	$1,144,050	$13,783,238
TOTAL FIXED	$	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$209,588	$2,515,057
TOTAL VARIABLE	$	$1,232,302	$1,293,177	$1,322,492	$1,191,044	$1,299,010	$1,173,929	$1,213,828	$1,185,069	$1,229,790	$1,237,464	$1,189,822	$1,230,250	$14,798,176
DELIVERED VOLUMES AT NYMEX	$	$1,118,625	$1,179,473	$1,200,088	$1,081,024	$1,176,528	$1,071,030	$1,103,492	$1,077,300	$1,123,223	$1,126,168	$1,086,135	$1,128,524	$13,471,608
NET NON-GAS VARIABLE COST	$	$113,677	$113,705	$122,405	$110,020	$122,482	$102,899	$110,336	$107,769	$106,567	$111,296	$103,687	$101,726	$1,326,568
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.3989**	**$0.3861**	**$0.4156**	**$0.4136**	**$0.4159**	**$0.3610**	**$0.3747**	**$0.3781**	**$0.3619**	**$0.3779**	**$0.3638**	**$0.3454**	**$0.3826**
AVERAGE FIXED COST	$/Dth													$22.0619
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.7253**
TOTAL PATH COST	$/Dth													**$1.1079**

REDACTED VERSION

Gas Year 2014 - 2015
ALGONQUIN LAMBERTVILLE TO CITY GATE
CITY GATE DELIVERED MDQ = 2,714

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
ALGONQUIN AFT-E DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	
VARIABLE														
ALGONQUIN AFT-E USAGE	$/Dth	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
07/31/2014 NYMEX	$/Dth	$3.9250	$4.0050	$4.0750	$4.0640	$3.9950	$3.7580	$3.7470	$3.7800	$3.8140	$3.8240	$3.8110	$3.8320	
SUPPLY AREA BASIS	$/Dth	($0.5850)	$0.6200	$3.2000	$2.0950	$0.0230	($0.8850)	($1.1500)	($1.1020)	($0.8600)	($0.8900)	($1.4100)	($1.3720)	
NET COST AFTER BASIS	$/Dth	$3.3400	$4.6250	$7.2750	$6.1590	$4.0180	$2.8730	$2.5970	$2.6780	$2.9540	$2.9340	$2.4010	$2.4600	
BILLING UNITS														
FIXED														
ALGONQUIN AFT-E DEMAND	Dth	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	32,568
VARIABLE														
PURCHASE VOLUMES	Dth	82,085	84,907	84,907	76,690	84,907	82,085	84,821	82,085	84,821	84,821	82,085	84,821	999,034
ALGONQUIN AFT-E USAGE	Dth	81,420	84,134	84,134	75,992	84,134	81,420	84,134	81,420	84,134	84,134	81,420	84,134	990,610
DELIVERED VOLUMES	Dth	81,420	84,134	84,134	75,992	84,134	81,420	84,134	81,420	84,134	84,134	81,420	84,134	990,610
FUEL USE %														
ALGONQUIN AFT-E FUEL	%	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
TRANSPORTATION COST														
FIXED														
ALGONQUIN AFT-E DEMAND	$	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$209,129
VARIABLE														
ALGONQUIN AFT-E USAGE	$	$1,010	$1,043	$1,043	$942	$1,043	$1,010	$1,043	$1,010	$1,043	$1,043	$1,010	$1,043	$12,284
PURCHASE COST	$	$274,164	$392,693	$617,696	$472,333	$341,155	$235,830	$220,280	$219,823	$250,561	$248,865	$197,086	$208,660	$3,679,146
TOTAL FIXED	$	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$209,129
TOTAL VARIABLE	$	$275,173	$393,737	$618,739	$473,275	$342,198	$236,839	$221,324	$220,833	$251,605	$249,908	$198,095	$209,703	$3,691,430
DELIVERED VOLUMES AT NYMEX	$	$319,574	$336,957	$342,846	$308,831	$336,115	$305,976	$315,250	$307,768	$320,887	$321,728	$310,292	$322,401	$3,848,626
NET NON-GAS VARIABLE COST	$	-$44,400	$56,780	$275,893	$164,444	$6,083	-$69,137	-$93,927	-$86,935	-$69,282	-$71,820	-$112,196	-$112,698	-$157,196
AVERAGE NON-GAS VARIABLE COST	$/Dth	**-$0.5453**	**$0.6749**	**$3.2792**	**$2.1640**	**$0.0723**	**-$0.8491**	**-$1.1164**	**-$1.0677**	**-$0.8235**	**-$0.8536**	**-$1.3780**	**-$1.3395**	**-$0.1587**
AVERAGE FIXED COST	$/Dth													$6.4213
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.2111**
TOTAL PATH COST	$/Dth													**$0.0524**

REDACTED VERSION

CALCULATION OF SYSTEM WEIGHTED AVERAGE DEMAND COSTS **2014 - 2015 GCR PROJECTED PRICES**

August 1, 2014 **UNIT PRICES**

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
		2014		2015									
PIPELINE FIXED COST UNIT PRICES $/Dth													
ALGONQUIN AFT-E/AFT-1 DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQUIN AFT-3 DEMAND	$/Dth	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554
ALGONQUIN AFT-ES/1S DEMAND	$/Dth	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685
ALGONQUIN HUBLINE DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
ALGONQUIN HUBLINE DEMAND	$/Dth	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958
ALGONQUIN HUBLINE DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
ALGONQUIN EAST TO WEST DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
COLUMBIA FTS DEMAND	$/Dth	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680	$6.0680
DOMINION FTNN DEMAND	$/Dth	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904	$4.1904
IROQUOIS DEMAND	$/Dth	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971
NATIONAL FUEL DEMAND	$/Dth	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652	$3.9652
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656	$22.1656
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619	$22.0619
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$/Dth	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365
TENNESSEE FT-A DEMAND DRACUT	$/Dth	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698	$4.8698
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$/Dth	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560	$7.3560
TEXAS EASTERN CDS STX DEMAND M3	$/Dth	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030
TEXAS EASTERN CDS WLA DEMAND M3	$/Dth	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240
TEXAS EASTERN CDS ELA DEMAND M3	$/Dth	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740
TEXAS EASTERN CDS ETX DEMAND M3	$/Dth	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880
TEXAS EASTERN CDS 1-3 DEMAND M3	$/Dth	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630	$10.2630
TEXAS EASTERN FTS DEMAND	$/Dth	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510
TEXAS EASTERN SCT STX DEMAND M3	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M3	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M3	$/Dth	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M3	$/Dth	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750
TEXAS EASTERN SCT 1-3 DEMAND M3	$/Dth	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060	$4.1060
TEXAS EASTERN SCT STX DEMAND M2	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M2	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M2	$/Dth	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M2	$/Dth	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750
TEXAS EASTERN SCT 1-2 DEMAND M2	$/Dth	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480
TRANSCANADA DEMAND	$/Dth	$8.8779	$9.1738	$9.1738	$8.2860	$9.1738	$8.8779	$9.1738	$8.8779	$9.1738	$9.1738	$8.8779	$9.1738
TRANSCO DEMAND ZONE 6 TO 6	$/Dth	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306	$0.1306
UNION DEMAND	$/Dth	$2.3370	$2.4149	$2.4149	$2.1812	$2.4149	$2.3370	$2.4149	$2.3370	$2.4149	$2.4149	$2.3370	$2.4149

REDACTED VERSION

CALCULATION OF SYSTEM WEIGHTED AVERAGE DEMAND COSTS **2014 - 2015 GCR PROJECTED PRICES**

August 1, 2014

		UNIT PRICES											
		NOV	**DEC**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**
PIPELINE FIXED COST BILLING UNITS													
ALGONQUIN AFT-E/AFT-1 DEMAND	DTH	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285
ALGONQUIN AFT-3 DEMAND	DTH	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063
ALGONQUIN AFT-ES/1S DEMAND	DTH	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079
ALGONQUIN HUBLINE DEMAND	DTH	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
ALGONQUIN HUBLINE DEMAND	DTH	500	500	500	500	500	500	500	500	500	500	500	500
ALGONQUIN HUBLINE DEMAND	DTH	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
ALGONQUIN EAST TO WEST DEMAND	Dth	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
COLUMBIA FTS DEMAND	DTH	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455
DOMINION FTNN DEMAND	DTH	537	537	537	537	537	537	537	537	537	537	537	537
IROQUOIS DEMAND	DTH	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
NATIONAL FUEL DEMAND	DTH	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177
TENNESSEE FT-A DEMAND ZONE 0 TO 6	DTH	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
TENNESSEE FT-A DEMAND ZONE 1 TO 6	DTH	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500
TENNESSEE FT-A DEMAND ZONE 0 TO 6	DTH	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022
TENNESSEE FT-A DEMAND ZONE 1 TO 6	DTH	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	DTH	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600
TENNESSEE FT-A DEMAND DRACUT	DTH	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
TENNESSEE FT-A DEMAND ZONE 5 TO 6	DTH	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067
TEXAS EASTERN CDS STX DEMAND M3	DTH	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844
TEXAS EASTERN CDS WLA DEMAND M3	DTH	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716
TEXAS EASTERN CDS ELA DEMAND M3	DTH	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758
TEXAS EASTERN CDS ETX DEMAND M3	DTH	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995
TEXAS EASTERN CDS 1-3 DEMAND M3	DTH	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934
TEXAS EASTERN FTS DEMAND	DTH	537	537	537	537	537	537	537	537	537	537	537	537
TEXAS EASTERN SCT STX DEMAND M3	DTH	571	571	571	571	571	571	571	571	571	571	571	571
TEXAS EASTERN SCT WLA DEMAND M3	DTH	648	648	648	648	648	648	648	648	648	648	648	648
TEXAS EASTERN SCT ELA DEMAND M3	DTH	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183
TEXAS EASTERN SCT ETX DEMAND M3	DTH	329	329	329	329	329	329	329	329	329	329	329	329
TEXAS EASTERN SCT 1-3 DEMAND M3	DTH	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099
TEXAS EASTERN SCT STX DEMAND M2	DTH	401	401	401	401	401	401	401	401	401	401	401	401
TEXAS EASTERN SCT WLA DEMAND M2	DTH	455	455	455	455	455	455	455	455	455	455	455	455
TEXAS EASTERN SCT ELA DEMAND M2	DTH	831	831	831	831	831	831	831	831	831	831	831	831
TEXAS EASTERN SCT ETX DEMAND M2	DTH	231	231	231	231	231	231	231	231	231	231	231	231
TEXAS EASTERN SCT 1-2 DEMAND M2	DTH	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474
TRANSCANADA DEMAND	DTH	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
TRANSCO DEMAND ZONE 6 TO 6	DTH	37,200	38,440	38,440	34,720	38,440	37,200	38,440	37,200	38,440	38,440	37,200	38,440
UNION DEMAND	DTH	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025

REDACTED VERSION

CALCULATION OF SYSTEM WEIGHTED AVERAGE DEMAND COSTS **2014 - 2015 GCR PROJECTED PRICES**

August 1, 2014 **UNIT PRICES**

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PIPELINE FIXED COST DOLLARS														
ALGONQUIN AFT-E/AFT-1 DEMAND	$	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	
ALGONQUIN AFT-3 DEMAND	$	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	
ALGONQUIN AFT-ES/1S DEMAND	$	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	
ALGONQUIN HUBLINE DEMAND	$	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	$33,736	
ALGONQUIN HUBLINE DEMAND	$	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	
ALGONQUIN HUBLINE DEMAND	$	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	$29,519	
ALGONQUIN EAST TO WEST DEMAND	$	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	
COLUMBIA FTS DEMAND	$	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	
DOMINION FTNN DEMAND	$	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	
IROQUOIS DEMAND	$	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	
NATIONAL FUEL DEMAND	$	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	$77,580	
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	$144,076	
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	$132,857	
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	$293,710	
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$	$263,743	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	$73,047	
TENNESSEE FT-A DEMAND DRACUT	$	$73,047	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	$15,205	
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$	$15,205	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	
TEXAS EASTERN CDS STX DEMAND M3	$	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	
TEXAS EASTERN CDS WLA DEMAND M3	$	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	
TEXAS EASTERN CDS ELA DEMAND M3	$	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	
TEXAS EASTERN CDS ETX DEMAND M3	$	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	
TEXAS EASTERN CDS 1-3 DEMAND M3	$	$471,421	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	
TEXAS EASTERN FTS DEMAND	$	$2,873	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	$471,421	
TEXAS EASTERN SCT STX DEMAND M3	$	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	
TEXAS EASTERN SCT WLA DEMAND M3	$	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	
TEXAS EASTERN SCT ELA DEMAND M3	$	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	
TEXAS EASTERN SCT ETX DEMAND M3	$	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	
TEXAS EASTERN SCT 1-3 DEMAND M3	$	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	$8,618	
TEXAS EASTERN SCT STX DEMAND M2	$	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	
TEXAS EASTERN SCT WLA DEMAND M2	$	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	
TEXAS EASTERN SCT ELA DEMAND M2	$	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	
TEXAS EASTERN SCT ETX DEMAND M2	$	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	
TEXAS EASTERN SCT 1-2 DEMAND M2	$	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	
TRANSCANADA DEMAND	$	$8,984	$9,284	$9,284	$8,385	$9,284	$8,984	$9,284	$8,984	$9,284	$9,284	$8,984	$9,284	
TRANSCO DEMAND ZONE 6 TO 6	$	$4,857	$5,019	$5,019	$4,533	$5,019	$4,857	$5,019	$4,857	$5,019	$5,019	$4,857	$5,019	
UNION DEMAND	$	$2,395	$2,475	$2,475	$2,236	$2,475	$2,395	$2,475	$2,395	$2,475	$2,475	$2,395	$2,475	
WESTERLY LATERAL (Yankee)	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
	$	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL PIPELINE FIXED DEMAND CHARGES		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL DEMAND UNITS DTH		5,340,885	5,551,170	5,551,170	5,013,960	5,551,170	5,340,885	5,486,659	4,854,210	5,016,017	5,016,017	4,854,210	5,486,659	63,063,012
100% LOAD FACTOR UNIT VALUE $/DTH														[redacted]
Average rate per unit per month														
AVERAGE SYSTEM VARIABLE UNIT VALUE $/DTH														
Marketer Reconciliation 2013/14														$80,117
Marketer Demand Units DTH		919,230	949,871	949,871	857,948	949,871	919,230	949,871	919,230	949,871	949,871	919,230	949,871	11,183,965
100% LOAD FACTOR UNIT VALUE $/DTH														[redacted]
TOTAL AVERAGE SYSTEM UNIT VALUE $/DTH														**$ 0.4080**

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV 2014	DEC 2014	JAN 2015	FEB 2015	MAR 2015	APR 2015	MAY 2015	JUN 2015	JUL 2015	AUG 2015	SEP 2015	OCT 2015	Total/Average
Forecast Demand													
RI Sales GCR	2,272,900	4,025,100	4,964,400	4,249,200	3,547,200	2,078,200	1,276,400	923,600	744,900	708,200	731,300	1,301,500	26,822,900
Total Demand	2,272,900	4,025,100	4,964,400	4,249,200	3,547,200	2,078,200	1,276,400	923,600	744,900	708,200	731,300	1,301,500	26,822,900
Storage Injections													
TENN 501	0	0	0	0	0	77,600	75,700	75,700	75,700	75,700	103,800	75,700	559,900
GSS 300170	0	0	0	0	0	55,100	55,100	55,100	55,100	55,100	66,900	66,700	409,100
GSS 300168	0	0	0	0	0	20,000	20,000	20,000	21,800	20,900	21,200	21,900	145,800
GSS 300171	0	0	0	0	0	24,500	24,500	30,900	26,000	24,500	25,900	26,800	183,100
GSSTE 600045	0	0	0	0	0	54,200	54,200	54,200	54,200	54,200	68,900	54,200	394,100
TETCO 400515	0	0	0	0	0	7,400	7,400	7,900	7,400	7,400	8,700	8,900	55,100
TETCO 400221	0	0	0	0	0	154,400	154,400	165,000	154,400	154,400	181,800	187,800	1,152,200
TETCO 400185	0	0	0	0	0	6,800	6,800	7,200	6,800	6,800	7,900	8,200	50,500
GSS 300169	0	0	0	0	0	26,800	26,800	33,700	27,200	26,800	28,300	29,200	198,800
COL FSS 9630	0	0	0	0	0	28,100	41,400	40,800	12,100	40,800	26,500	14,300	204,000
TENN 62918	0	0	0	0	0	29,900	27,300	27,300	27,300	27,300	39,900	27,300	206,300
Total Underground Storage	0	0	0	0	0	484,800	493,600	517,800	468,000	493,900	579,800	521,000	3,558,900
LNG PROV	0	0	0	0	0	10,500	147,800	22,800	116,900	95,900	58,000	125,800	577,700
LNG VALLEY	0	0	0	0	0	0	3,000	46,100	2,000	19,100	2,000	4,800	77,000
LNG EXETER	0	0	0	0	0	4,000	4,200	4,000	36,100	40,000	90,000	24,500	202,800
Total LNG Injection	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
Total Injections	0	0	0	0	0	499,300	648,600	590,700	623,000	648,900	729,800	676,100	4,416,400

Delivered Firm Sales Supply

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	GCR Total
Sources of Supply													
TENNESSEE ZONE 0 CXN	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE ZONE 0	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE ZONE 1	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE ZONE 4 CXN	348,000	359,600	359,600	324,800	359,600	348,000	359,600	306,600	359,600	359,600	348,000	359,600	4,192,600
TENNESSEE ZONE 4	242,400	359,400	486,600	410,600	275,800	390,400	13,500	0	297,800	290,500	347,700	406,900	3,521,600
TENNESSEE NIAGARA	0	0	7,700	3,200	0	0	0	0	0	0	0	0	10,900
TENNESSEE DRACUT	0	66,200	83,400	136,000	46,400	3,100	0	0	0	0	0	0	335,100
TETCO ELA	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO ETX	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO STX	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO WLA	0	0	0	0	0	0	0	0	0	0	0	0	0
TETCO M2	765,100	796,000	773,700	698,800	773,700	274,100	274,100	776,700	525,200	492,900	544,200	784,000	7,478,500
TETCO M3 DELIVERED	400,800	128,300	243,300	234,700	122,200	1,353,200	1,058,800	295,600	0	0	27,000	238,800	4,102,700
COLUMBIA MAUMEE	103,200	835,400	911,500	798,100	730,000	58,700	0	0	0	0	0	0	3,436,900
COLUMBIA BROADRUN	34,200	307,200	307,200	267,600	257,600	19,800	0	0	0	0	0	0	1,193,600
COLUMBIA EAGLE	39,400	49,800	72,700	67,800	28,500	63,800	45,300	44,400	12,100	40,800	26,500	15,100	506,200
COLUMBIA DOWNINGTOWN	33,900	41,700	105,800	68,600	27,600	24,200	0	500	0	0	0	0	302,300
TETCO - NF - TRANSCO	15,200	36,300	35,200	32,800	36,300	0	0	0	0	0	0	0	155,800
TETCO - DTI - TETCO	2,700	8,500	8,200	6,900	8,500	0	0	0	0	0	0	0	34,800
TETCO to B&W - SCT	50,600	62,400	60,600	54,700	60,600	0	0	0	0	0	0	0	288,900
AGT HUBLINE	100	108,300	92,400	130,600	24,700	200	0	0	0	0	0	0	356,300
ANE II - DAWN-TENN	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	151,000
DISTRIGAS NSB Winter	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRIGAS NSB Summer	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
NEWPORT LNG	0	0	0	0	0	0	0	0	0	0	0	0	0

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
Non LNG Liquid take	2,065,600	3,190,100	3,578,900	3,263,200	2,782,500	2,535,500	1,751,300	1,423,800	1,194,700	1,183,800	1,293,400	1,804,400	26,067,200
LNG Liquid take	0	0	0	0	0	14,500	155,000	72,900	155,000	155,000	150,000	155,100	857,500
Total take	2,065,600	3,190,100	3,578,900	3,263,200	2,782,500	2,550,000	1,906,300	1,496,700	1,349,700	1,338,800	1,443,400	1,959,500	26,924,700
Storage Withdrawals													
TENN 501	7,600	155,600	157,100	98,500	131,300	1,900	0	0	0	0	0	0	552,000
GSS 300170	1,400	110,000	118,200	88,200	77,700	0	0	0	0	0	0	0	395,500
GSS 300168	25,100	35,900	26,200	28,500	28,000	0	0	0	0	0	0	0	143,700
GSS 300171	0	28,200	68,300	58,400	24,200	0	0	0	0	0	0	0	179,100
GSSTE 600045	76,400	78,900	78,900	71,300	78,900	0	0	0	0	0	0	0	384,400
TETCO 400515	0	13,400	13,400	13,400	11,800	0	0	0	0	0	0	0	52,000
TETCO 400221	0	285,500	285,300	285,300	251,000	0	0	0	0	0	0	0	1,107,100
TETCO 400185	0	12,500	12,500	12,500	11,000	0	0	0	0	0	0	0	48,500
GSS 300169	0	47,600	54,100	53,200	38,300	0	0	0	0	0	0	0	193,200
COL FSS 9630	0	40,100	72,900	52,900	26,300	5,400	600	0	0	0	0	0	198,200
TENN 62918	79,300	0	0	57,200	64,400	2,600	0	0	0	0	0	0	203,500
LNG PROV	10,500	17,100	315,900	144,900	14,400	10,500	10,800	10,500	10,800	10,800	10,500	10,800	577,500
LNG VALLEY	3,100	3,200	27,500	18,100	3,200	3,100	3,200	3,100	3,200	3,200	3,100	3,200	77,200
LNG EXETER	4,000	7,000	155,000	3,800	4,200	4,000	4,200	4,000	4,200	4,200	4,000	4,200	202,800
Total Withdrawal Delivered	207,400	835,000	1,385,300	986,200	764,700	27,500	18,800	17,600	18,200	18,200	17,600	18,200	4,314,700
Total Storage withdrawal	189,800	807,700	886,900	819,400	742,900	9,900	600	0	0	0	0	0	3,457,200
Total Peaking withdrawal	17,600	27,300	498,400	166,800	21,800	17,600	18,200	17,600	18,200	18,200	17,600	18,200	857,500
Total Supply	**2,273,000**	**4,025,100**	**4,964,200**	**4,249,400**	**3,547,200**	**2,563,000**	**1,770,100**	**1,441,400**	**1,212,900**	**1,202,000**	**1,311,000**	**1,822,600**	**30,381,900**
Storage withdrawals at Storage Facilty													
TENN 501	7,700	157,800	159,300	99,900	133,200	2,000	0	0	0	0	0	0	559,900
GSS 300170	1,400	113,800	122,200	91,200	80,400	0	0	0	0	0	0	0	409,000
GSS 300168	25,500	36,400	26,600	28,900	28,400	0	0	0	0	0	0	0	145,800
GSS 300171	0	28,900	69,900	59,700	24,700	0	0	0	0	0	0	0	183,200
GSSTE 600045	78,300	80,900	80,900	73,100	80,900	0	0	0	0	0	0	0	394,100
TETCO 400515	0	14,200	14,200	14,200	12,500	0	0	0	0	0	0	0	55,100
TETCO 400221	0	297,000	297,000	297,000	261,400	0	0	0	0	0	0	0	1,152,400
TETCO 400185	0	13,000	13,000	13,000	11,400	0	0	0	0	0	0	0	50,400
GSS 300169	0	49,000	55,600	54,700	39,400	0	0	0	0	0	0	0	198,700
COL FSS 9630	0	41,300	75,000	54,500	27,100	5,600	600	0	0	0	0	0	204,100
TENN 62918	80,400	0	0	58,000	65,300	2,600	0	0	0	0	0	0	206,300
	193,300	832,300	913,700	844,200	764,700	10,200	600	0	0	0	0	0	3,559,000

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
07/31/2014 NYMEX	**$3.925**	**$4.005**	**$4.075**	**$4.064**	**$3.995**	**$3.758**	**$3.747**	**$3.780**	**$3.814**	**$3.824**	**$3.811**	**$3.832**	
TENNESSEE ZONE 0 CONNEXION													
Basis	($0.117)	($0.115)	($0.120)	($0.112)	($0.080)	($0.090)	($0.080)	($0.090)	($0.070)	($0.070)	($0.090)	($0.090)	
Usage to Zn 6	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	$0.0235	
Fuel to Zn 6	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	
Total Delivered	$4.0164	$4.1024	$4.1705	$4.1674	$4.1286	$3.8696	$3.8685	$3.8926	$3.9493	$3.9597	$3.9251	$3.9472	
TENNESSEE ZONE 0													
Basis	($0.117)	($0.115)	($0.120)	($0.112)	($0.080)	($0.090)	($0.080)	($0.090)	($0.070)	($0.070)	($0.090)	($0.090)	
Usage to Zn 6	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	$0.3359	
Fuel to Zn 6	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	4.63%	
Total Delivered	$4.3288	$4.4148	$4.4829	$4.4798	$4.4410	$4.1820	$4.1809	$4.2050	$4.2617	$4.2721	$4.2375	$4.2596	
TENNESSEE ZONE 1													
Basis	($0.058)	($0.073)	($0.048)	($0.049)	($0.044)	($0.087)	($0.074)	($0.072)	($0.089)	($0.074)	($0.087)	($0.105)	
Usage to Zn 6	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	$0.2927	
Fuel to Zn 6	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	4.06%	
Total Delivered	$4.3239	$4.3911	$4.4906	$4.4776	$4.4109	$4.1190	$4.1217	$4.1581	$4.1759	$4.2019	$4.1748	$4.1774	
TENNESSEE ZONE 4 CONNEXION													
Basis	($1.200)	($1.170)	($0.960)	($0.990)	($0.910)	($0.945)	($1.095)	($0.755)	($1.305)	($1.300)	($1.580)	($1.530)	
Usage to Zn 6	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	$0.0067	
Fuel to Zn 6	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	
Total Delivered	$2.7701	$2.8817	$3.1656	$3.1240	$3.1352	$2.8594	$2.6961	$3.0743	$2.5511	$2.5663	$2.2691	$2.3411	
TENNESSEE ZONE 4													
Basis	($1.200)	($1.170)	($0.960)	($0.990)	($0.910)	($0.945)	($1.095)	($0.755)	($1.305)	($1.300)	($1.580)	($1.530)	
Usage to Zn 6	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	$0.1140	
Fuel to Zn 6	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	
Total Delivered	$2.8774	$2.9890	$3.2729	$3.2313	$3.2425	$2.9667	$2.8034	$3.1816	$2.6584	$2.6736	$2.3764	$2.4484	
NIAGARA TO TENNESSEE													
Basis	$0.140	$0.240	$0.255	$0.272	$0.320	$0.233	($0.077)	($0.246)	($0.391)	$0.159	$0.150	$0.203	
Tenn usage	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	
Tenn Fuel	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	
Total Delivered	$4.1942	$4.3761	$4.4620	$4.4681	$4.4469	$4.1195	$3.7950	$3.6576	$3.5454	$4.1114	$4.0891	$4.1639	
TENNESSEE DRACUT													
Basis	$2.074	$10.799	$14.056	$13.146	$5.654	$0.628	-$0.986	$0.535	-$0.184	-$0.536	-$0.969	-$0.622	
Usage	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	$0.0354	
Fuel	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	
Total Delivered	$6.0470	$14.8706	$18.2046	$17.2816	$9.7047	$4.4306	$2.8022	$4.3595	$3.6730	$3.3303	$2.8834	$3.2522	
TETCO ELA													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage to M3	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.88%	6.93%	6.93%	6.93%	6.93%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.2385	$4.3546	$4.4457	$4.4154	$4.3763	$4.0007	$3.9782	$4.0275	$4.0682	$4.0714	$4.0714	$4.0832	
TETCO ETX													
Basis	($0.116)	($0.103)	($0.071)	($0.062)	($0.064)	($0.046)	($0.049)	($0.062)	($0.052)	($0.012)	($0.059)	($0.016)	
Usage to M3	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.57%	6.31%	6.31%	6.31%	6.31%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.1598	$4.2963	$4.4062	$4.4040	$4.3275	$4.0562	$4.0413	$4.0626	$4.1096	$4.1630	$4.0989	$4.1672	

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO STX													
Basis	($0.083)	($0.090)	($0.067)	($0.065)	($0.057)	($0.012)	($0.003)	($0.012)	$0.008	$0.008	($0.013)	($0.012)	
Usage to M3	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	$0.0864	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.83%	6.87%	6.87%	6.87%	6.87%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	5.83%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.2127	$4.3420	$4.4428	$4.4330	$4.3669	$4.1099	$4.1078	$4.1335	$4.1913	$4.2020	$4.1656	$4.1891	
TETCO WLA													
Basis	($0.102)	($0.063)	($0.077)	($0.039)	($0.019)	$3.886	($1.864)	($2.261)	($0.824)	($0.141)	($1.211)	$1.699	
Usage to M3	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	$0.0801	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel to M3	5.88%	6.93%	6.93%	6.93%	6.93%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	5.88%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.1882	$4.3677	$4.4284	$4.4577	$4.4045	$8.2810	$2.1101	$1.7202	$3.2959	$4.0382	$2.8781	$6.0177	
TETCO M2													
Basis	($1.141)	($0.956)	($0.810)	($0.817)	($0.892)	($0.950)	($1.205)	($1.296)	($1.274)	($1.282)	($1.548)	($1.543)	
Usage on Tetco	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	$0.0505	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Tetco	3.69%	4.13%	4.13%	4.13%	4.13%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	3.69%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$2.9776	$3.2729	$3.5003	$3.4813	$3.3298	$3.0027	$2.7243	$2.6635	$2.7222	$2.7243	$2.4322	$2.4594	
TETCO M3 DELIVERED													
Basis	($0.585)	$0.620	$3.200	$2.095	$0.023	($0.885)	($1.150)	($1.102)	($0.860)	($0.890)	($1.410)	($1.372)	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.3797	$4.6799	$7.3542	$6.2280	$4.0673	$2.9089	$2.6306	$2.7123	$2.9905	$2.9704	$2.4330	$2.4925	
COLUMBIA MAUMEE													
Basis	($0.120)	($0.155)	($0.180)	($0.170)	($0.175)	($0.112)	($0.145)	($0.215)	($0.280)	($0.350)	($0.547)	($0.512)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
COLUMBIA BROADRUN													
Basis	($0.120)	($0.155)	($0.180)	($0.170)	($0.175)	($0.112)	($0.145)	($0.215)	($0.280)	($0.350)	($0.547)	($0.512)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
COLUMBIA EAGLE													
Basis	($0.585)	$0.620	$3.200	$2.095	$0.023	($0.885)	($1.150)	($1.102)	($0.860)	($0.890)	($1.410)	($1.372)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.4622	$4.7879	$7.5145	$6.3662	$4.1633	$2.9822	$2.6985	$2.7818	$3.0655	$3.0449	$2.4971	$2.5577	

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
COLUMBIA DOWNINGTOWN													
Basis	($0.410)	$0.920	$2.123	$3.325	$0.085	($0.628)	($1.015)	($1.000)	($0.708)	($0.738)	($1.113)	($1.070)	
Usage on Columbia	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on AGT	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
Fuel on Columbia	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	1.917%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$3.6421	$5.0965	$6.4063	$7.6318	$4.2271	$3.2464	$2.8373	$2.8866	$3.2217	$3.2011	$2.8023	$2.8681	
TETCO -> NF -> TRANSCO													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage to M2	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	
Usage on NF	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	$0.0160	
Usage on Transco	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	$0.0068	
Usage on AGT	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	
Fuel to M2	4.93%	5.69%	5.69%	5.69%	5.69%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	
Fuel on NF	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	
Fuel on Transco	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Delivered to NF	$4.4854	$4.5818	$4.6709	$4.6412	$4.6030	$4.2519	$4.2298	$4.2782	$4.3181	$4.3213	$4.3213	$4.3329	
Delivered to Transco	$4.5513	$4.6488	$4.7388	$4.7088	$4.6702	$4.3152	$4.2928	$4.3418	$4.3822	$4.3854	$4.3854	$4.3971	
Delivered to Algonquin	$4.5690	$4.6667	$4.7570	$4.7269	$4.6882	$4.3323	$4.3099	$4.3589	$4.3995	$4.4027	$4.4027	$4.4144	
Total Delivered	$4.8348	$4.9381	$5.0292	$4.9988	$4.9598	$4.5962	$4.5736	$4.6230	$4.6639	$4.6671	$4.6671	$4.6789	
TETCO -> DTI -> TETCO													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage to M2	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	$0.4147	
Usage on Dominion	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	$0.0202	
Usage on Tetco	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	$0.0012	
Usage on AGT	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	
Fuel to M2	4.93%	5.69%	5.69%	5.69%	5.69%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	
Fuel on Dominion	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	1.95%	
Fuel on Tetco	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Delivered to Dominion	$4.4854	$4.5818	$4.6709	$4.6412	$4.6030	$4.2519	$4.2298	$4.2782	$4.3181	$4.3213	$4.3213	$4.3329	
Delivered to Tetco	$4.5948	$4.6931	$4.7840	$4.7537	$4.7148	$4.3566	$4.3341	$4.3835	$4.4242	$4.4274	$4.4274	$4.4392	
Delivered to Algonquin	$4.6560	$4.7557	$4.8477	$4.8170	$4.7776	$4.4148	$4.3919	$4.4419	$4.4832	$4.4865	$4.4865	$4.4985	
Total Delivered	$4.9226	$5.0278	$5.1207	$5.0898	$5.0499	$4.6793	$4.6563	$4.7067	$4.7483	$4.7516	$4.7516	$4.7637	
TETCO to B&W - SCT													
Basis	($0.055)	($0.075)	($0.061)	($0.078)	($0.045)	($0.110)	($0.120)	($0.107)	($0.103)	($0.110)	($0.097)	($0.107)	
Usage on Tetco	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	$0.5099	
Usage on AGT	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	$0.2285	
Fuel to M3	5.84%	6.85%	6.85%	6.85%	6.85%	5.84%	5.84%	5.84%	5.84%	5.84%	5.84%	5.84%	
Fuel on AGT	0.81%	0.91%	0.91%	0.91%	0.91%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%	
Total Delivered	$4.8862	$5.0008	$5.0918	$5.0615	$5.0225	$4.6485	$4.6260	$4.6752	$4.7159	$4.7191	$4.7191	$4.7309	
AGT HUBLINE													
Basis	$2.060	$10.725	$13.960	$13.055	$5.615	$0.525	($0.835)	$0.452	($0.190)	($0.530)	($0.835)	($0.575)	
AGT Usage	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	$0.0124	
AGT Fuel	0.54%	0.62%	0.62%	0.62%	0.62%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	
Total Delivered	$6.0299	$14.8343	$18.1599	$17.2382	$9.6824	$4.3187	$2.9402	$4.2674	$3.6561	$3.3243	$3.0046	$3.2871	
DAWN TO TENNESSEE - ANE II													
Basis	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	
Iroquois usage	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	$0.0042	
Tenn usage	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	$0.0861	
Fuel on Iroquois	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Fuel on Tenn	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	
Total Delivered	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$3.8882	$3.8771	$3.9105	$3.9448	$3.9549	$3.9418	$3.9630	

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

Total Delivered to the City Gate Gas Supply Costs

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TENNESSEE ZONE 0 CONNEXION													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.016	$4.102	$4.171	$4.167	$4.129	$3.870	$3.869	$3.893	$3.949	$3.960	$3.925	$3.947	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE ZONE 0													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.329	$4.415	$4.483	$4.480	$4.441	$4.182	$4.181	$4.205	$4.262	$4.272	$4.238	$4.260	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE ZONE 1													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.324	$4.391	$4.491	$4.478	$4.411	$4.119	$4.122	$4.158	$4.176	$4.202	$4.175	$4.177	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE ZONE 4 CONNEXION													
Delivered MMBtu	348,000	359,600	359,600	324,800	359,600	348,000	359,600	306,600	359,600	359,600	348,000	359,600	
Delivered Price	$2.7701	$2.8817	$3.1656	$3.1240	$3.1352	$2.8594	$2.6961	$3.0743	$2.5511	$2.5663	$2.2691	$2.3411	
Total Delivered Cost	$963,999	$1,036,246	$1,138,353	$1,014,685	$1,127,413	$995,054	$969,511	$942,593	$917,364	$922,834	$789,664	$841,877	
TENNESSEE ZONE 4													
Delivered MMBtu	242,400	359,400	486,600	410,600	275,800	390,400	13,500	0	297,800	290,500	347,700	406,900	
Delivered Price	$2.8774	$2.9890	$3.2729	$3.2313	$3.2425	$2.9667	$2.8034	$3.1816	$2.6584	$2.6736	$2.3764	$2.4484	
Total Delivered Cost	$697,485	$1,074,233	$1,592,597	$1,326,784	$894,278	$1,158,181	$37,846	$0	$791,662	$776,674	$826,291	$996,274	
NIAGARA TO TENNESSEE													
Delivered MMBtu	0	0	7,700	3,200	0	0	0	0	0	0	0	0	
Delivered Price	$4.1942	$4.3761	$4.4620	$4.4681	$4.4469	$4.1195	$3.7950	$3.6576	$3.5454	$4.1114	$4.0891	$4.1639	
Total Delivered Cost	$0	$0	$34,358	$14,298	$0	$0	$0	$0	$0	$0	$0	$0	
TENNESSEE DRACUT													
Delivered MMBtu	0	66,200	83,400	136,000	46,400	3,100	0	0	0	0	0	0	
Delivered Price	$6.05	$14.87	$18.20	$17.28	$9.70	$4.43	$2.80	$4.36	$3.67	$3.33	$2.88	$3.25	
Total Delivered Cost	$0	$984,431	$1,518,260	$2,350,300	$450,298	$13,735	$0	$0	$0	$0	$0	$0	
TETCO ELA													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.2385	$4.3546	$4.4457	$4.4154	$4.3763	$4.0007	$3.9782	$4.0275	$4.0682	$4.0714	$4.0714	$4.0832	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO ETX													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.1598	$4.2963	$4.4062	$4.4040	$4.3275	$4.0562	$4.0413	$4.0626	$4.1096	$4.1630	$4.0989	$4.1672	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TETCO STX													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.213	$4.342	$4.443	$4.433	$4.367	$4.110	$4.108	$4.133	$4.191	$4.202	$4.166	$4.189	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TETCO WLA													
Delivered MMBtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered Price	$4.1882	$4.3677	$4.4284	$4.4577	$4.4045	$8.2810	$2.1101	$1.7202	$3.2959	$4.0382	$2.8781	$6.0177	
Total Delivered Cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
TETCO M2													
Delivered MMBtu	765,100	796,000	773,700	698,800	773,700	274,100	274,100	776,700	525,200	492,900	544,200	784,000	
Delivered Price	$2.9776	$3.2729	$3.5003	$3.4813	$3.3298	$3.0027	$2.7243	$2.6635	$2.7222	$2.7243	$2.4322	$2.4594	
Total Delivered Cost	$2,278,149	$2,605,244	$2,708,177	$2,432,764	$2,576,237	$823,042	$746,720	$2,068,776	$1,429,682	$1,342,788	$1,323,606	$1,928,186	
TETCO M3 DELIVERED													
Delivered MMBtu	400,800	128,300	243,300	234,700	122,200	1,353,200	1,058,800	295,600	0	0	27,000	238,800	
Delivered Price	$3.3797	$4.6799	$7.3542	$6.2280	$4.0673	$2.9089	$2.6306	$2.7123	$2.9905	$2.9704	$2.4330	$2.4925	
Total Delivered Cost	$1,354,574	$600,428	$1,789,279	$1,461,703	$497,024	$3,936,271	$2,785,287	$801,747	$0	$0	$65,691	$595,206	
COLUMBIA MAUMEE													
Delivered MMBtu	103,200	835,400	911,500	798,100	730,000	58,700	0	0	0	0	0	0	
Delivered Price	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
Total Delivered Cost	$406,627	$3,333,620	$3,679,496	$3,220,907	$2,890,493	$221,695	$0	$0	$0	$0	$0	$0	
COLUMBIA BROADRUN													
Delivered MMBtu	34,200	307,200	307,200	267,600	257,600	19,800	0	0	0	0	0	0	
Delivered Price	$3.9402	$3.9904	$4.0367	$4.0357	$3.9596	$3.7768	$3.7315	$3.6935	$3.6616	$3.6000	$3.3841	$3.4417	
Total Delivered Cost	$134,754	$1,225,865	$1,240,089	$1,079,958	$1,019,988	$74,780	$0	$0	$0	$0	$0	$0	
COLUMBIA EAGLE													
Delivered MMBtu	39,400	49,800	72,700	67,800	28,500	63,800	45,300	44,400	12,100	40,800	26,500	15,100	
Delivered Price	$3.4622	$4.7879	$7.5145	$6.3662	$4.1633	$2.9822	$2.6985	$2.7818	$3.0655	$3.0449	$2.4971	$2.5577	
Total Delivered Cost	$136,412	$238,435	$546,301	$431,628	$118,654	$190,265	$122,243	$123,511	$37,092	$124,232	$66,172	$38,621	
COLUMBIA DOWNINGTOWN													
Delivered MMBtu	33,900	41,700	105,800	68,600	27,600	24,200	0	500	0	0	0	0	
Delivered Price	$3.6421	$5.0965	$6.4063	$7.6318	$4.2271	$3.2464	$2.8373	$2.8866	$3.2217	$3.2011	$2.8023	$2.8681	
Total Delivered Cost	$123,467	$212,525	$677,789	$523,538	$116,668	$78,562	$0	$1,443	$0	$0	$0	$0	

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment EDA-4
Redacted
September 2, 2014
Page 18 of 18

REDACTED VERSION

National Grid
2014 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> NF -> TRANSCO													
Delivered MMBtu	15,200	36,300	35,200	32,800	36,300	0	0	0	0	0	0	0	
Delivered Price	$4.8348	$4.9381	$5.0292	$4.9988	$4.9598	$4.5962	$4.5736	$4.6230	$4.6639	$4.6671	$4.6671	$4.6789	
Total Delivered Cost	$73,489	$179,252	$177,027	$163,961	$180,039	$0	$0	$0	$0	$0	$0	$0	
TETCO -> DTI -> TETCO													
Delivered MMBtu	2,700	8,500	8,200	6,900	8,500	0	0	0	0	0	0	0	
Delivered Price	$4.9226	$5.0278	$5.1207	$5.0898	$5.0499	$4.6793	$4.6563	$4.7067	$4.7483	$4.7516	$4.7516	$4.7637	
Total Delivered Cost	$13,291	$42,737	$41,990	$35,119	$42,925	$0	$0	$0	$0	$0	$0	$0	
TETCO to B&W - SCT													
Delivered MMBtu	50,600	62,400	60,600	54,700	60,600	0	0	0	0	0	0	0	
Delivered Price	$4.8862	$5.0008	$5.0918	$5.0615	$5.0225	$4.6485	$4.6260	$4.6752	$4.7159	$4.7191	$4.7191	$4.7309	
Total Delivered Cost	$247,239	$312,052	$308,565	$276,864	$304,363	$0	$0	$0	$0	$0	$0	$0	
AGT HUBLINE													
Delivered MMBtu	100	108,300	92,400	130,600	24,700	200	0	0	0	0	0	0	
Delivered Price	$6.0299	$14.8343	$18.1599	$17.2382	$9.6824	$4.3187	$2.9402	$4.2674	$3.6561	$3.3243	$3.0046	$3.2871	
Total Delivered Cost	$603	$1,606,554	$1,677,976	$2,251,309	$239,154	$864	$0	$0	$0	$0	$0	$0	
DAWN TO TENNESSEE - ANE II													
Delivered MMBtu	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	
Delivered Price	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$3.8882	$3.8771	$3.9105	$3.9448	$3.9549	$3.9418	$3.9630	
Total Delivered Cost	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$0	$0	$0	$0	$0	$0	$0	
	NOV	**DEC**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	
Total Pipeline Costs	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$7,492,449	$4,661,606	$3,938,069	$3,175,799	$3,166,528	$3,071,423	$4,400,165	$94,650,915
Total Pipeline Volumes	2,065,600	3,190,100	3,578,900	3,263,200	2,782,500	2,535,500	1,751,300	1,423,800	1,194,700	1,183,800	1,293,400	1,804,400	26,067,200
WACOG	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$2.9550	$2.6618	$2.7659	$2.6582	$2.6749	$2.3747	$2.4386	$3.6310
Injections	0	0	0	0	0	484,800	493,600	517,800	468,000	493,900	579,800	521,000	3,558,900
Value at WACOG	$0	$0	$0	$0	$0	$1,432,593	$1,313,863	$1,432,176	$1,244,056	$1,321,125	$1,376,845	$1,270,498	$9,391,156
Pipeline Costs less Injections	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$6,059,856	$3,347,743	$2,505,893	$1,931,743	$1,845,403	$1,694,578	$3,129,667	$85,259,759
Pipeline Volumes less injections	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	2,050,700	1,257,700	906,000	726,700	689,900	713,600	1,283,400	22,508,300
NYMEX cost of Supplies	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$7,706,531	$4,712,602	$3,424,680	$2,771,634	$2,638,178	$2,719,530	$4,917,989	$88,736,723
Non-gas cost of delivered supplies													**-$0.1545**

Attachment EDA-5

EDA-5 FT-2 Operational Parameters

Operational Parameters
Non-Daily Metered FT-2 Storage and Peaking Resources

The following Operational Parameters are pursuant to RIPUC NG No. 101, Section 6, Schedule C:

Effective Period: November 1, 2014 through October 31, 2015

Underground Storage:

Maximum Inventory Level at any time is 100% of MSQ-U
Injections are not allowed.
Minimum Inventory Levels:

November 1	97%
November 15	95%
December 1	92%
December 15	83%
January 1	72%
January 15	62%
February 1	50%
February 15	40%
March 1	30%
March 15	21%
April 1	11%

Peaking Inventory:

Inventory Level allocated on November 1, 2014 = MSQ-P
Injections are not allowed.
Minimum Inventory Levels:

November 1	98%
January 1	94%
February 1	28%
March 1	2%
April 1	0%

MSQ-U	Maximum Storage Quantity - Underground
MDQ-U	Maximum Daily Quantity - Underground
MSQ-P	Maximum Storage Quantity - Peaking
MDQ-P	Maximum Daily Quantity - Peaking

Attachment EDA-6

EDA-6 FT-2 Storage Variable Costs

FT-2 Storage Variable Costs

SLF - Weighted Average Loss Factor on Storage Withdrawals

Storage	Withdrawals	Fuel %	Fuel Vol.	Fuel Avg.
TENN 501	559,900	0.00%	0	
GSS 300170	409,000	0.00%	0	
GSS 300168	145,800	0.00%	0	
GSS 300171	183,200	0.00%	0	
GSS-TE 600045	394,100	0.00%	0	
TETCO 400515	55,100	0.79%	435	
TETCO 400221	1,152,400	2.99%	34,457	
TETCO 400185	50,400	2.99%	1,507	
GSS 300169	198,700	0.00%	0	
COL FSS 9630	204,100	0.00%	0	
TENN 62918	206,300	0.00%	0	
	3,559,000		36,399	**1.0227%**

WWCC - Weighted Average Commodity Cost of Storage Withdrawals

Storage	Withdrawals	Unit Cost	Cost	Average
TENN 501	559,900	$0.0087	$4,871	
GSS 300170	409,000	$0.0182	$7,444	
GSS 300168	145,800	$0.0182	$2,654	
GSS 300171	183,200	$0.0182	$3,334	
GSS-TE 600045	394,100	$0.0229	$9,025	
TETCO 400515	54,665	$0.0404	$2,208	
TETCO 400221	1,117,943	$0.0646	$72,219	
TETCO 400185	48,893	$0.0646	$3,158	
GSS 300169	198,700	$0.0182	$3,616	
COL FSS 9630	204,100	$0.0153	$3,123	
TENN 62918	206,300	$0.0087	$1,795	
	3,522,601		$113,448	**$0.0322**

PLF - Weighted Average Loss Factor on Pipeline Contracts Used to Deliver Storage Withdrawals

Storage	Transported		Fuel %		Fuel Vol.	Fuel Avg.
TENN 501	559,900			1.39%	7,783	
GSS 300170	409,000		1.95%	1.39%	13,550	
GSS 300168	145,800			1.39%	2,027	
GSS 300171	183,200		1.29%	0.91%	4,009	
GSS-TE 600045	394,100		1.50%	0.91%	9,444	
TETCO 400515	54,665		3.43%	0.91%	2,358	
TETCO 400221	1,117,943			0.91%	10,173	
TETCO 400185	48,893			0.91%	445	
GSS 300169	198,700	1.95%	0.00%	0.91%	5,648	
COL FSS 9630	204,100		1.917%	0.91%	5,734	
TENN 62918	206,300			1.39%	2,868	
	3,522,601				64,037	**1.8179%**

PCC - Weighted Average Commodity Cost on Pipeline Contracts Used to Deliver Storage Withdrawals

Storage	Withdrawals		Unit Cost		Cost	Average
TENN 501	552,000			$0.1140	$62,928	
GSS 300170	395,500		$0.0202	$0.1140	$53,076	
GSS 300168	143,700			$0.1140	$16,382	
GSS 300171	179,100		$0.0012	$0.0124	$2,436	
GSS-TE 600045	384,400		$0.0012	$0.0124	$5,228	
TETCO 400515	52,000		$0.0415	$0.0124	$2,801	
TETCO 400221	1,107,100			$0.0124	$13,728	
TETCO 400185	48,500			$0.0124	$601	
GSS 300169	193,200	$0.0202	$0.0012	$0.0124	$6,530	
COL FSS 9630	198,200		$0.0164	$0.0124	$5,708	
TENN 62918	203,500			$0.1140	$23,199	
	3,457,200				$192,617	**$0.0557**

Testimony of
Ann E. Leary

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4520
GAS COST RECOVERY FILING
WITNESS: ANN E. LEARY
SEPTEMBER 2, 2014

DIRECT TESTIMONY

OF

ANN E. LEARY

September 2, 2014

Table of Contents

I. Introduction

Q. Please state your name and business address.

A. My name is Ann E. Leary. My business address is 40 Sylvan Road, Waltham, Massachusetts, 02451.

Q. What is your position and responsibilities?

A. I am the Manager of New England Gas Pricing for National Grid USA Service Company, Inc. As such, I am responsible for preparing and submitting various regulatory filings with the Rhode Island Public Utilities Commission (PUC) on behalf of The Narragansett Electric Company d/b/a National Grid (Company), and the Massachusetts Department of Public Utilities on behalf of Boston Gas Company and Colonial Gas Company each d/b/a National Grid.

Q. Please describe your educational and professional background.

A. I received a Bachelor of Science in Mechanical Engineering from Cornell University in 1983. In 1985, I joined the Essex County Gas Company as Staff Engineer. In 1987, I became a planning analyst and later accepted the position of Manager of Rates. Following the merger with Eastern Enterprises in 1998, I became Manager of Pricing for Boston Gas Company. After the merger with KeySpan Energy Delivery, subsequently National Grid, I became the Manager of New England Gas Pricing, the position I hold today.

Q. Have you previously testified or appeared before the PUC?

A. Yes I have. I have testified before the PUC regarding the Company's Gas Cost Recovery (GCR) Filing, Docket Nos. 4436 and 4346. I also submitted pre-filed testimony in the Company's 2012 Rate Case Filing, Docket No. 4323. In addition, I have testified extensively in several ratemaking and regulatory proceedings before the Massachusetts Department of Public Utilities and the New Hampshire Public Utilities Commission.

Q. What is the purpose of your testimony?

A. The purpose of this testimony is to propose the GCR factors to become effective on November 1, 2014 for the following services: (1) Firm sales service to customers in the Residential Non-Heating and Heating rate classes as well as Commercial and Industrial (C&I) firm sales customers in the Small, Medium, Large, and Extra Large rate classes and (2) transportation services provided to Gas Marketers and the associated Gas Marketer Fixed Charges and factors.

Q. How is your testimony organized?

A. My testimony is composed of four general sections:

I. Introduction; II. GCR Rate Development; III. Residential Non-Heating Customers; and IV. Bill Impacts.

Q. Are you including any Attachments with your testimony?

A. Yes. I am sponsoring the following Attachments:

Attachment AEL-1	Gas Cost Recovery Factors
Attachment AEL-2	Annual GCR Reconciliation Filing
Attachment AEL-3	Projected Gas Cost Balances
Attachment AEL-4	Bill Impact Analysis
Attachment AEL-5	FT-2 Demand Rate
Attachment AEL-6	FT-2 Capacity Allocator Percentages
Attachment AEL-7	Marketer Reconciliation

II. <u>GCR Rate Development</u>

Q. Please provide an overview of the development of the proposed GCR factors.

A. The proposed GCR factors reflect the load specific (high load and low load) factors necessary for the Company to recover the projected gas costs allocated to firm sales customers for the period November 1, 2014 through October 31, 2015. As shown in the testimony of Company witness Ms. Elizabeth D. Arangio on Attachment EDA-1, firm sales customers' gas costs for the period are projected to be approximately $146.4 million for the twelve months ended October 2015. In addition to these projected costs, the GCR factors also include recovery of working capital costs, inventory financing costs, prior period reconciliations, LNG operation and maintenance (O&M) costs, as well as credits for FT-2 Market

Storage Demand and LNG costs allocated to the Distribution Adjustment Clause (DAC) factors. The table below summarizes the costs and credits included in the 2014-2015 GCR:

GCR Component	**Amount (millions)**	**Reference**
Firm Gas Costs	$146.4	EDA-1
Working Capital Costs	$0.9	AEL-1, page 2, line 9 and page 3, line 5
Inventory Financing Costs	$1.3	AEL-1, page 3, lines 8-9
Prior Period Deferred Balance (Includes the Marketer Fixed Costs Reconciliation)	$29.0	AEL-1, page 2, lines 10-11 and page 3, line 6
LNG Operation and Maintenance (O&M) Costs	$1.1	Docket No. 4323, AEL-1, page 2, line 8 and page 3, line 7
FT-2 Marketer Storage Demand Costs	($1.6)	AEL-1, page 2, line 4
LNG Costs collected via the Distribution Adjustment Clause ("DAC") Factor	($1.5)	AEL-1, page 2, line 5
Total	$175.6	AEL-1, page 2, line 13 + AEL-1, page 3 line 11

Thus, the GCR factors are intended to recover approximately $175.6 million in net costs over the period November 2014 through October 2015.

Q. At a high level, please explain how the proposed GCR factors were derived.

A. The proposed GCR factors were developed based upon the Fixed and Variable cost components. Attachment AEL-1 provides a summary of the GCR fixed and variable gas cost components used to derive the rates for which the Company seeks approval in this filing for effect November 1, 2014.

Q. Please describe how the fixed cost component of the proposed GCR was developed.

A. The fixed cost component includes all of the fixed costs related to the purchase, storage, and delivery of firm gas for both the high load factor and low load factor customers. As shown on Attachment AEL-1, page 2, the fixed cost component is derived by taking the total fixed costs (reduced by Capacity Release credits), less any credits such as Natural Gas Portfolio Management Plan (NGPMP) customer credits, LNG demand costs allocated to the DAC factors, and storage demand costs billed to FT-2 Marketers. The FT-2 storage demand costs are calculated by multiplying the FT-2 Demand Charge rate by the forecast of storage and peaking Maximum Daily Quantity (MDQ) to be billed to FT-2 Marketers. Adjustments are also made for supply-related LNG costs, working capital costs, and prior period deferred fixed gas costs under/over-collection balances, including an adjustment for the Marketer fixed cost reconciliation as stipulated in the Settlement Agreement between the Company and the Division in Docket No. 4199. This results in total fixed gas costs of $28.1 million that are to be recovered over the period November 2014 through October 2015. Finally, because the Company's gas-supply resources are planned so that there is sufficient capacity to meet the needs of firm sales customers under design winter conditions, the total Fixed Gas Costs are allocated between high load factor and low load factor customers based on their proportion of design-winter use. The high load and low load GCR factors are derived using the allocated supply fixed costs and dividing them by the projected throughput for the upcoming year for each group. Accordingly, the GCR fixed low load factor is $1.0659 per dekatherm while the GCR fixed high load factor is $0.8898 per dekatherm.

Q. Please describe how the Company calculated the Marketer fixed cost reconciliation balance?

A. In accordance with the Settlement Agreement approved in Docket No. 4199, the Company includes an annual reconciliation of Marketer fixed costs. The Company calculated the Marketer reconciliation by updating the 2013/2014 pipeline surcharge/credit for each path based on actual instead of projected pipeline capacity costs. The Company then compared the pipeline surcharge/credit approved in Docket No. 4436 for each path with the updated actual pipeline surcharge/credit and multiplied this variance by the Marketer's actual monthly capacity for the months of November 2013 through July 2014 and forecasted monthly capacity for the months of August 2014 through October 2014. This results in a Marketer surcharge of $23,024. The Company is also updating to the 2012/2013 Marketer reconciliation to replace the Marketers' forecasted monthly capacity for the months of August through October 2013 with their actual monthly capacity and to recalculate the 2012/2013 Marketer reconciliation. In addition, the Company is reconciling the actual revenues billed to Marketers during the period November 2013 through October 2014 with the actual 2012/2013 Marketer reconciliation. This results in a Marketer surcharge of $57,093 for the 2012/2013 period. Therefore, the overall total Marketer reconciliation for the two year period totals $80,117. Attachment AEL-7 shows the calculation of the Marketer reconciliation adjustment for both the 2012/2013 and 2013/2014 periods. In addition to crediting firm sales customers fixed costs for this amount, the Company included this reconciliation in its calculation of the 2014/2015 pipeline surcharge/credits, as detailed in Ms. Arangio's testimony and shown on Attachment EDA-4.

Q. How did the Company develop its design winter calculations?

A. The Company developed its design winter calculation using calendar month degree days consistent with the PUC's finding in Docket No. 4097.

Q. Please describe how the variable cost component was derived.

A. The variable cost component includes all variable costs of gas such as commodity costs, supply-related LNG O&M, working capital, inventory finance costs, pipeline refunds, and deferred cost balances. As shown on Attachment AEL-1, page 3, line 11, the total variable costs for the period November 2014 through October 2015 is $147,555,590. The variable costs are divided by the projected throughput of 26,528,190 Dths to obtain a variable cost factor of $5.5622 per Dth.

Q. What is the Company's estimate of the deferred gas cost balance at the end of the current GCR period?

A. Based on actual data through July 2014 and forecasted data for the months of August through October 2014, the total estimated deferred balance at October 31, 2014 is an under collection of $29,031,120 as shown in Attachment AEL-1, page 6. This balance is incorporated into the development of the proposed GCR factors for the period November 1, 2014 to October 31, 2015. In addition, the Company shows the projected deferred gas cost balances for the November 2014 through October 2015 in Attachment AEL-3.

Q. Is the Company proposing any changes to the GCR deferral balance for the period April 2013 through March 2014 filed with the Commission on July 1, 2014?

A. Yes. In Attachment AEL-2 the Company has revised its 2013/2014 Annual Deferred Gas Cost Report to reflect a revision to its NGPMP credit. As detailed in the testimony of Company witness Mr. Stephen A. McCauley, the Company has revised the customer excess earnings amount included in the NGPMP credit.

In addition, the NGPMP credit included in the July 1, 2014 Annual Deferred Gas Cost Report erroneously included Asset Management Agreement (AMA) credits, which had already been included as credits to the Company's fixed gas costs. The change to the customer excess earnings results in an increase in the NGPMP credit of $165,440 while the elimination of the AMA credits results in a decrease in the NGPMP credit of $231,625. Consequently, there is a net decrease of $66,185 in the total NGPMP credit and an increase in the amount of deferred gas costs reported in the Annual Deferred Gas Cost Report at March 31, 2014 of $66,185 plus $35 in associated interest, for a total of $66,220. The Company has incorporated these changes to its NGPMP results in Attachment AEL-2.

Q. Are there other rates the Company is proposing in this filing?

A. Yes. Consistent with the modifications in Docket No. 4270, the Company is submitting for approval its FT-2 Marketer Demand rate of $8.7038 per MDQ in Dth/month as shown in Attachment AEL-5. In addition, the Company is also submitting for approval the capacity assignment percentages for the high load and low load factors to be used in the determination of pipeline, underground storage, and peaking capacity for Marketers. These percentages are set forth in Attachment AEL-6.

Q. Please describe how the proposed FT-2 Marketer Demand rate is calculated.

A. It is worth noting that the FT-2 rate design approved in Docket No. 4270 separates storage costs into two components: (1) the FT-2 Demand rate designed to recover the fixed costs associated with storage and peaking, which the Company is submitting for approval in this filing, and (2) the FT-2 variable rate that is designed to recover variable underground storage costs, as well as the associated commodity costs and loss factors associated with pipeline contracts to bring the gas from storage to the city gate. In addition, Marketers may purchase peaking inventory at the Company's cost of LNG inventory.

The FT-2 Demand rate is derived by first totaling the fixed storage costs, associated inventory finance, working capital charges, and supply-related LNG O&M costs less any LNG demand credits assigned to the DAC factors and any refunds, if applicable. That total is then divided by the total storage and peaking MDQ for the year to derive a monthly per dekatherm rate to be charged to Marketers. As shown in Attachment AEL-5, the proposed FT-2 Marketer Demand rate is $8.7038 per Dth and will be applied to the Marketers' storage and peaking MDQ.

III. <u>Residential Non-Heating Customers</u>

Q. In the Company's last GCR proceeding in Docket No. 4436, the consultant for the Division of Public Utilities and Carriers (the Division) inquired as to

the reason for the increase in use for the Residential Non-Heating rate class during the prior winter. Did the Company investigate the reason for this increase?

A. Yes it has. The Company performed extensive data analysis on the historical usage for the Residential Non-Heating rate class to confirm the trending of increased use per customer. As a result of observing this trend, the Company hypothesized that non-heating customers could have converted to gas heat but not had their rate class assignment changed in the system. Therefore, the Company compared a list of non-heating customers with a list of customers who have participated in the Company's Marketing and Energy Efficiency programs over the past few years, indicating that they had converted to gas heating through the purchase of a high efficiency gas boiler or receipt of an incentive payment from the Energy Efficiency program in support of the installation of a high efficiency gas boiler. As a result of this work, the Company identified that slightly more than 2,000 non-heating customers had converted their heating systems to natural gas, but had yet to be transferred to the heating rate. The Company intends to transfer these customers to the heating rate before the upcoming winter heating season. The Company also reviewed the annual consumption of the remaining non-heating customers (excluding the 2,000 customers identified above) and further identified over 1,000 customers who are using more than 1,000 therms per year and have annual load factors[1] greater than 60%. The Company believes that customers with this load profile are most likely using gas for heating purposes and likely converted their heating systems to natural gas over the years but never contacted the Company about converting. The Company is in the process of notifying these customers that they will be transferred to the heating rate during the next few months.

Q. Did the Company make any adjustments to the 2014-2015 sales forecast to reflect this change?

A. No, the Company did not make any manual adjustments to the Company's 2014-2015 sales forecast. The Company determined that the assignment of 3,000 customers from the non-heating class to the heating class will have minimal impact on the proposed high load and low load GCR factors. In addition, any variance between forecast and actual sales will be captured in the GCR reconciliation.

---

[1] Load factor equals winter usage (November through April) divided by total annual usage.

IV. BILL IMPACTS

Q. What is the combined bill impact of the proposed DAC and GCR factors on customer bills as compared to bills over the past year?

A. An average residential heating customer using 846 therms per year will experience a total annual bill decrease related to the proposed GCR and DAC factors of approximately $108.79, or 8.3% over last year's bills. This decrease is comprised of a $48.02 decrease in GCR charges, a $57.51 decrease in the DAC charges, for which the Company submitted a supplemental filing on August 29, 2014 in Docket No. 4514, and a decrease in the Gross Earnings Tax of $3.26. A summary of annual bill impacts for customers with various levels of usage is provided in Attachment AEL-4.

Q. Does this conclude your testimony?

A. Yes.

Attachments of
Ann E. Leary

Attachments of Ann E. Leary

Attachment AEL-1
REDACTED

Attachment AEL-1
Gas Cost Recovery Factors

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective November 1, 2014

Line No.	Description (a)	Source Reference (b)	Source Line # (c)	High Load[1] (d)	Low Load[2] (e)	FT-2 Mkter[3] (f)
(1)	Fixed Cost Factor	AEL-1 pg 2	Line (17)	\$0.8898	\$1.0659	
(2)	Variable Cost Factor	AEL-1 pg 3	Line (13)	\$5.5622	\$5.5622	
(3)	Total Gas Cost Recovery Charge	(1) + (2)		\$6.4520	\$6.6281	
(4)	Uncollectible %	Docket 4323		3.18%	3.18%	
(5)	Total GCR Charge adjusted for Uncollectibles	(3) / [1 - (4)]		\$6.6639	\$6.8457	
(6)	**GCR Charge on a per therm basis**	(5) / 10		**\$0.6663**	**\$0.6845**	
(7)	Current rate effective 04/01/14*			\$0.8963	\$0.9208	
(8)	Increase (Decrease)	(6) - (7)		(\$0.2300)	(\$0.2363)	
(9)	Percent Increase (Decrease)	(8) / (7)		-25.7%	-25.7%	

* GCR rates approved with the interim GCR filing per Dkt 4436 filed on February 14, 2014

[1] Includes: Residential Non Heating, Large High Load and Extra Large High Load

[2] Includes: Residential Heating, Small C&I, Medium C&I, Large Low Load, Extra Large Low Load

[3] See AEL-5 for calculation of FT-2 rate

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Fixed Cost Calculation ($ per Dth)

Line No.	Description (a)	Source: Reference (b)	Source: Line # (c)	Amount (d)	High Load Factor Total (e)	Low Load Factor Total (f)
(1)	Fixed Costs (net of Cap Rel to marketers)	AEL-1 pg 4	Line (60)	$44,355,723		
	Less:					
(2)	NGPMP Customer Benefit	EDA-1		($6,900,000)		
(3)	Interruptible Costs			$0		
(4)	FT-2 Storage Demand Costs	AEL-5 pg 3	Line (5)	($1,571,148)		
(5)	LNG Demand to DAC*			($1,488,790)		
(6)	Refunds			$0		
(7)	Total Credits	sum[(2):(6)]		($9,959,938)		
	Plus:					
(8)	Supply Related LNG O&M Costs	Dkt 4323	Compliance Attachment 6 Schedule MDL-3-GAS	$575,581		
(9)	Working Capital Requirement	AEL-1 pg 8	Line (16)	$254,137		
(10)	Deferred Fixed Cost Under/(Over)-recovered	AEL-1 pg 6	Line (17)	($7,060,474)		
(11)	Reconciliation Amount from Fixed costs- Marketers	AEL-7 pg 2	Line (50)	($80,117)		
(12)	Total Additions	sum[(8):(11)]		($6,310,873)		
(13)	Total Fixed Costs	(1) + (7) + (12)		$28,084,912		
(14)	Design Winter Sales Percentage	AEL-1 pg 12	Lines (10) & (11)		3.48%	96.52%
(15)	Allocated Supply Fixed Costs	(13) x (14)			$978,192	$27,106,721
(16)	Sales (Dt) Nov 2014 - Oct 2015	AEL-1 pg 11	Line (9)	26,528,190	1,099,216	25,428,974
(17)	**Fixed Factor**	(15) / (16)			**$0.8898**	**$1.0659**

* System Balancing Factor (Dkt 4339)
Line (16)
Col (e): AEL-1, page 11, Line 9, Sum of Line (1), (6), (8)
Col (f): AEL-1, page 11, Line 9, Sum of Line (2)-(5) and (7)

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Variable Cost Calculation ($ per Dth)

Line No.	Description	Source Reference	Source Line #	Amount
	(a)	(b)	(c)	(d)
(1)	Variable Costs, excluding Refunds	AEL-1 pg 5	Line (91) - Line (85)	$108,985,186
	Less:			
(2)	Non-Firm Sales			$0
(3)	Refunds	AEL-1 pg 5	Line (85)	$0
(4)	Total Credits	sum [(2):(3)]		$0
	Plus:			
(5)	Working Capital	AEL-1 pg 8	Line (32)	$646,120
(6)	Deferred Variable Cost Under/(Over)-recovered	AEL-1 pg 6	Line (34)	$36,091,594
(7)	Supply Related LNG O&M	Docket 4323	Compliance Attachment 6 Schedule MDL-3-GAS	$572,694
(8)	Inventory Financing - LNG	AEL-1 pg 10	Line (22)	$254,509
(9)	Inventory Financing - Storage	AEL-1 pg 10	Line (12)	$1,005,487
(10)	Total Additions	sum [(5):(9)]		$38,570,404
(11)	Total Variable Supply Costs	(1) + (4) + (10)		$147,555,590
(12)	Sales (Dt) Nov 2014 - Oct 2015	AEL-1 pg 11	Line (9)	26,528,190
(13)	**Variable Cost Factor**	(11) / (12)		**$5.5622**

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Gas Cost Estimate

Line No.	Description (a)	Reference (b)	Nov-14 (c)	Dec-14 (d)	Jan-15 (e)	Feb-15 (f)	Mar-15 (g)	Apr-15 (h)	May-15 (i)	Jun-15 (j)	Jul-15 (k)	Aug-15 (l)	Sep-15 (m)	Oct-15 (n)	Nov-Oct (o)
	SUPPLY FIXED COSTS - Pipeline Delivery														
(1)	Algonquin	EDA-2	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$8,279,365
(2)	Texas Eastern	EDA-2	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$2,549,487
(3)	TETCO	EDA-2	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$493,847	$5,926,167
(4)	Tennessee	EDA-2	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$1,000,218	$12,002,617
(5)	NETNE	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(6)	Iroquois	EDA-2	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$80,115
(7)	Union	EDA-2	$2,395	$2,475	$2,475	$2,236	$2,475	$2,395	$2,475	$2,395	$2,475	$2,475	$2,395	$2,475	$29,144
(8)	Transcanada	EDA-2	$8,984	$9,284	$9,284	$8,385	$9,284	$8,984	$9,284	$8,984	$9,284	$9,284	$8,984	$9,284	$109,311
(9)	Dominion	EDA-2	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$2,250	$27,003
(10)	Transco	EDA-2	$4,857	$5,019	$5,019	$4,533	$5,019	$4,857	$5,019	$4,857	$5,019	$5,019	$4,857	$5,019	$59,096
(11)	National Fuel	EDA-2	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$4,667	$56,004
(12)	AMA Credits	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(13)	Columbia	EDA-2	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$287,957	$3,455,483
(14)	Hubline	EDA-2	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$66,754	$801,044
(15)	Westerly Lateral	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(16)	East to West	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(17)	Less Credits from Mkter Releases	EDA-2	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($517,512)	($6,210,145)
(18)	**TOTAL SUPPLY FIXED COSTS - Pipeline**	sum[(1):(16)]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Supply Fixed - Supplier														
(19)	Distrigas FCS	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(20)	**Total**	(18)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(21)	**Total Supply Fixed (Pipeline & Supplier)**	(17) + (19)	$2,376,290	$2,376,832	$2,375,493	$2,373,869	$2,375,493	$2,378,634	$2,379,175	$2,378,634	$2,379,175	$2,379,175	$2,378,634	$2,379,175	$28,530,579
	STORAGE FIXED COSTS - Facilities														
(22)	Texas Eastern SS-1 Demand	EDA-2	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$947,091
(23)	Texas Eastern SS-1 Capacity	EDA-2	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$160,336
(24)	Texas Eastern FSS-1 Demand	EDA-2	$846	$846	$846	$846	$846	$846	$846	$846	$846	$846	$846	$846	$10,150
(25)	Texas Eastern FSS-1 Capacity	EDA-2	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$7,324
(26)	Dominion GSS Demand	EDA-2	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$21,156	$253,872
(27)	Dominion GSS Capiacity	EDA-2	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$180,839
(28)	Dominion GSS-TE Demand	EDA-2	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$26,599	$319,193
(29)	Dominion GSS-TE Capacity	EDA-2	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$239,480
(30)	Tennessee FSMA Demand	EDA-2	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$391,203
(31)	Tennessee FSMA Capacity	EDA-2	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$206,445
(32)	Columbia FSS Demand	EDA-2	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$46,085
(33)	Columbia FSS Capacity	EDA-2	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$70,732
(34)	Keyspan LNG Tank Lease Payment	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(35)	**TOTAL FIXED STORAGE COSTS**	sum[(21):(33)]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	STORAGE FIXED COSTS - Delivery														
(36)	Algonquin for TETCO SS-1	EDA-2	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$1,089,335
(37)	Algonquin delivery for FSS	EDA-2	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$72,740
(38)	TETCO delivery for FSS	EDA-2	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$57,218
(39)	Algonquin SCT for SS-1	EDA-2	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$20,497
(40)	Algonquin delivery for GSS, GSS-TE,	EDA-2	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$904,556
(41)	Algonquin SCT delivery for GSS-TE	EDA-2	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$5,764
(42)	Algonquin delivery for GSS Conv	EDA-2	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$242,013
(43)	Tennessee delivery for GSS	EDA-2	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$56,341	$676,088
(44)	Tennessee delivery for FSMA	EDA-2	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$34,441	$413,294
(45)	TETCO delivery for GSS/GSS-TE	EDA-2	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$409,480
(46)	TETCO delivery for GSS-TE	EDA-2	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$42,455
(47)	TETCO delivery for GSS-TE	EDA-2	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$412,746
(48)	TETCO delivery for GSS Conv	EDA-2	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$128,087
(49)	Dominion delivery for GSS Conv	EDA-2	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$8,636	$103,637
(50)	Dominion delivery for GSS	EDA-2	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$22,310	$267,716
(51)	Algonquin delivery for FSS	EDA-2	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$196,107
(52)	Columbia Delivery for FSS	EDA-2	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$15,010	$180,125
(53)	Distrigas FLS call payment	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(54)	EMERA PEAKING SUPPLY AT SALEM	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(55)	BP PEAKING SUPPLY AT DRACUT	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(56)	Repsol Peaking Supply at Dracut	EDA-2													$0
(57)	Less Credits from Mkter Releases	EDA-2													
(58)	**STORAGE DELIVERY FIXED COST**	sum[(35):(56)]	$435,155	$673,155	$673,155	$673,155	$540,155	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$11,027,513
(59)	**TOTAL STORAGE FIXED**	(34) + (57)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(60)	**TOTAL FIXED COSTS**	(20) + (58)	$3,211,248	$3,449,789	$3,448,450	$3,446,826	$3,315,450	$3,925,971	$3,926,512	$3,925,971	$3,926,512	$3,926,512	$3,925,971	$3,926,512	$44,355,723

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Gas Cost Estimate

Line No.	Description (a)	Reference (b)	Nov-14 (c)	Dec-14 (d)	Jan-15 (e)	Feb-15 (f)	Mar-15 (g)	Apr-15 (h)	May-15 (i)	Jun-15 (j)	Jul-15 (k)	Aug-15 (l)	Sep-15 (m)	Oct-15 (n)	Nov-Oct (o)
	VARIABLE SUPPLY COSTS (Includes Injections)														
(61)	Tennessee Zone 0	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(62)	Tennessee Zone 4	EDA-2	$697,485	$1,074,233	$1,592,597	$1,326,784	$894,278	$1,158,181	$37,846	$0	$791,662	$776,674	$826,291	$996,274	$10,172,304
(63)	Tennessee Connexion	EDA-2	$963,999	$1,036,246	$1,138,353	$1,014,685	$1,127,413	$995,054	$969,511	$942,593	$917,364	$922,834	$789,664	$841,877	$11,659,592
(64)	Tennessee Dracut	EDA-2	$0	$984,431	$1,518,260	$2,350,300	$450,298	$13,735	$0	$0	$0	$0	$0	$0	$5,317,024
(65)	TETCO STX	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(66)	TETCO ELA	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(67)	TETCO WLA	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(68)	TETCO ETX	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(69)	TETCO NF	EDA-2	$73,489	$179,252	$177,027	$163,961	$180,039	$0	$0	$0	$0	$0	$0	$0	$773,766
(70)	M3 Delivered	EDA-2	$1,354,574	$600,428	$1,789,279	$1,461,703	$497,024	$3,936,271	$2,785,287	$801,747	$0	$0	$65,691	$595,206	$13,887,210
(71)	Maumee	EDA-2	$406,627	$3,333,620	$3,679,496	$3,220,907	$2,890,493	$221,695	$0	$0	$0	$0	$0	$0	$13,752,838
(72)	Broadrun Col	EDA-2	$134,754	$1,225,865	$1,240,089	$1,079,958	$1,019,988	$74,780	$0	$0	$0	$0	$0	$0	$4,775,435
(73)	Columbia Eagle and Downingtown	EDA-2	$259,879	$450,960	$1,224,090	$955,166	$235,322	$268,827	$122,243	$124,954	$37,092	$124,232	$66,172	$38,621	$3,907,558
(74)	TETCO M2	EDA-2	$2,278,149	$2,605,244	$2,708,177	$2,432,764	$2,576,237	$823,042	$746,720	$2,068,776	$1,429,682	$1,342,788	$1,323,606	$1,928,186	$22,263,370
(75)	Dominion to TETCO FTS	EDA-2	$13,291	$42,737	$41,990	$35,119	$42,925	$0	$0	$0	$0	$0	$0	$0	$176,061
(76)	Transco Zone 3	EDA-2													$0
(77)	ANE to Tennessee	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$0	$0	$0	$0	$0	$0	$0	[redacted]
(78)	Niagara to Tennessee	EDA-2	$0	$0	$34,358	$14,298	$0	$0	$0	$0	$0	$0	$0	$0	$48,656
(79)	TETCO to B & W	EDA-2	$247,239	$312,052	$308,565	$276,864	$304,363	$0	$0	$0	$0	$0	$0	$0	$1,449,084
(80)	DistriGas FCS	EDA-2													$0
(81)	Hubline	EDA-2	$603	$1,606,554	$1,677,976	$2,251,309	$239,154	$864	$0	$0	$0	$0	$0	$0	$5,776,460
(82)	Total Pipeline Commodity Charges	sum[(60):(81)]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$7,492,449	$4,661,606	$3,938,069	$3,175,799	$3,166,528	$3,071,423	$4,400,165	$94,650,915
(83)	Hedging EDA-2		$456,560	$1,258,610	$1,084,720	$950,790	$949,635	$411,381	$257,722	$117,879	$104,720	$80,191	$88,890	$114,437	$5,875,535
(84)	Costs of Injections	EDA-2	$0	$0	$0	$0	$0	($1,511,251)	($1,386,502)	($1,475,046)	($1,285,078)	($1,354,582)	($1,416,692)	($1,303,540)	($9,732,691)
(85)	Refunds														
(86)	**TOTAL VARIABLE SUPPLY COSTS**	sum[(82):(85)]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$6,392,579	$3,532,827	$2,580,903	$1,995,441	$1,892,137	$1,743,621	$3,211,062	$90,793,759
(87)	Underground Storage	EDA-2	$730,579	$2,952,121	$3,241,654	$2,994,928	$2,715,510	$39,125	$2,182	$0	$0	$0	$0	$0	$12,676,100
(88)	LNG Withdrawals and Trucking	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(89)	Storage Delivery Costs	EDA-2	$30,844	$170,228	$182,144	$168,262	$153,958	$1,885	$26	$0	$0	$0	$0	$0	$707,346
(90)	**TOTAL VARIABLE STORAGE COSTS**	sum[(87):(89)]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$18,191,427
(91)	**TOTAL VARIABLE COSTS**	(86) + (90)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$108,985,186
(92)	**TOTAL SUPPLY COSTS**	(59) + (91)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$153,340,909
	Storage Costs for FT-2 Calculation														
(93)	**Storage Fixed Costs - Facilities**	(34)	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$399,803	$4,797,630
(94)	**Storage Fixed Costs - Deliveries**	(57)	$435,155	$673,155	$673,155	$673,155	$540,155	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$1,147,534	$11,027,513
(95)	**Total Storage Costs**	sum[(92):(93)]	$834,957	$1,072,957	$1,072,957	$1,072,957	$939,957	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$15,825,143

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
GCR Deferred Balances

Line No.	Description	Nov-13 actual	Dec-13 actual	Jan-14 actual	Feb-14 actual	Mar-14 actual	Apr-14 actual	May-14 actual	Jun-14 actual	Jul-14 actual	Aug-14 forecast	Sep-14 forecast	Oct-14 forecast	Nov-Oct
(1)	f ays n #onthD i M	30	31	31	28	31	30	31	30	31	31	30	31	365
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
(2)	I. Fixed Cost Deferred													
(3)	Beginning Balance	($5,826,212)	($4,859,848)	($5,978,215)	($10,375,006)	($13,591,019)	($16,517,674)	($17,077,221)	($16,061,355)	($15,854,316)	($13,270,644)	($10,384,049)	($9,734,032)	($5,826,212)
(4)	Adjustment- Tennessee Refund Reallocation													
(5)	Supply Fixed Costs (net of cap rel)	$3,143,675	$3,380,096	$3,381,417	$3,490,908	$3,422,689	$3,639,171	$3,672,635	$3,699,902	$3,634,903	$3,884,551	$3,883,894	$3,884,551	$43,118,393
(6)	LNG Demand to DAC	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(7)	Supply Related LNG O & M	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
(8)	NGPMP Credits	($83,333)	($83,333)	($1,558,333)	($83,333)	($210,855)	($83,333)	($83,333)	($2,232,073)	($83,333)	($83,333)	($2,232,073)	($83,333)	($6,900,000)
(9)	Working Capital	$17,902	$19,303	$19,311	$19,960	$19,556	$20,839	$21,038	$21,199	$20,814	$22,294	$22,290	$22,294	$246,802
(10)	Total Supply Fixed Costs	$3,002,143	$3,239,965	$1,766,294	$3,351,434	$3,155,290	$3,500,577	$3,534,239	$1,412,928	$3,496,283	$3,747,411	$1,598,011	$3,747,411	$35,551,986
(11)	Supply Fixed - Revenue	$2,022,091	$4,352,582	$6,154,409	$6,555,963	$6,065,970	$4,042,875	$2,500,791	$1,189,503	$897,159	$848,266	$937,665	$1,064,943	$36,632,217
(12)	P relim. Ending Balance	($4,846,161)	($5,972,465)	($10,366,330)	($13,579,534)	($16,501,700)	($17,059,972)	($16,043,774)	($15,837,930)	($13,255,192)	($10,371,499)	($9,723,702)	($7,051,563)	($6,906,443)
(13)	Month's Average Balance	($5,336,186)	($5,416,156)	($8,172,272)	($11,977,270)	($15,046,360)	($16,788,823)	($16,560,497)	($15,949,642)	($14,554,754)	($11,821,072)	($10,053,876)	($8,392,798)	
(14)	Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(15)	Interest Applied	($5,482)	($5,750)	($8,676)	($11,485)	($15,974)	($17,249)	($17,581)	($16,387)	($15,452)	($12,550)	($10,329)	($8,910)	($145,825)
(16)	Marketer Reconcilation	($8,205)												($8,205)
(17)	Fixed Ending Balance	($4,859,848)	($5,978,215)	($10,375,006)	($13,591,019)	($16,517,674)	($17,077,221)	($16,061,355)	($15,854,316)	($13,270,644)	($10,384,049)	($9,734,032)	($7,060,474)	($7,060,474)
(18)	II. Variable Cost Deferred													
(19)	Beginning Balance	$19,736,322	$25,311,994	$34,062,087	$54,638,378	$63,013,612	$69,979,022	$57,728,989	$48,956,026	$42,830,949	$41,630,143	$39,793,841	$37,296,328	$19,736,322
(20)	Adjustment- Tennessee Refund Reallocation													
(21)	Variable Supply Costs	$13,317,378	$26,368,013	$46,645,065	$35,110,868	$31,519,121	$9,056,537	$3,766,783	$1,890,149	$2,768,699	$2,497,970	$2,404,818	$4,476,250	$179,821,651
(22)	Supply Related LNG to DAC	($76,679)	($85,575)	($722,185)	($200,181)	($72,042)	$0	$0	$0	$0	$0	$0	$0	($1,156,661)
(23)	Supply Related LNG O & M	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$572,694
(24)	Inventory Financing - LNG	$36,806	$35,144	$15,216	$10,979	$7,591	$24,413	$40,118	$39,550	$38,253	$30,654	$36,382	$40,819	$355,925
(25)	Inventory Financing - UG	$147,313	$131,616	$98,279	$64,847	$46,005	$64,273	$81,749	$95,913	$111,016	$142,652	$145,942	$150,960	$1,280,563
(26)	Working Capital	$78,498	$155,816	$272,254	$206,968	$186,434	$53,692	$22,331	$11,206	$16,414	$14,809	$14,257	$26,537	$1,059,217
(27)	Total Supply Variable Costs	$13,551,040	$26,652,738	$46,356,354	$35,241,206	$31,734,834	$9,246,638	$3,958,706	$2,084,542	$2,982,107	$2,733,810	$2,649,124	$4,742,291	$181,933,389
(28)	Supply Variable - Revenue	$7,998,497	$17,934,145	$25,827,122	$26,922,354	$25,293,086	$21,562,241	$12,788,269	$8,256,746	$4,227,723	$4,613,311	$5,186,218	$5,985,960	$166,595,672
(29)	P relim. Ending Balance	$25,288,865	$34,030,587	$54,591,319	$62,957,230	$69,455,360	$57,663,419	$48,899,425	$42,783,823	$41,585,333	$39,750,642	$37,256,747	$36,052,659	$35,074,039
(30)	Month's Average Balance	$22,512,593	$29,671,291	$44,326,703	$58,797,804	$66,234,486	$63,821,221	$53,314,207	$45,869,924	$42,208,141	$40,690,393	$38,525,294	$36,674,493	
(31)	Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(32)	Interest Applied	$23,129	$31,500	$47,059	$56,381	$70,317	$65,570	$56,601	$47,127	$44,810	$43,199	$39,581	$38,935	$564,210
(33)	Gas Procurement Incentive/(penalty)	$0	$0	$0	$0	$453,345	$0	$0	$0	$0	$0	$0	$0	$453,345
(34)	Variable Ending Balance	$25,311,994	$34,062,087	$54,638,378	$63,013,612	$69,979,022	$57,728,989	$48,956,026	$42,830,949	$41,630,143	$39,793,841	$37,296,328	$36,091,594	$36,091,594
(35)	**GCR Deferred Summary**													
(36)	Beginning Balance	$13,910,110	$20,452,146	$28,083,873	$44,263,373	$49,422,593	$53,461,348	$40,651,768	$32,894,671	$26,976,633	$28,359,499	$29,409,792	$27,562,296	$13,910,110
(37)	Gas Costs	$16,347,793	$29,634,158	$49,275,921	$38,373,219	$34,841,392	$12,667,332	$7,411,042	$5,561,675	$6,375,226	$6,354,145	$6,260,336	$8,332,425	$221,434,662
(38)	Inventory Finance	$184,118	$166,760	$113,495	$75,826	$53,596	$88,685	$121,867	$135,463	$149,269	$173,306	$182,324	$191,779	$1,636,489
(39)	Working Capital	$96,399	$175,119	$291,565	$226,929	$205,990	$74,531	$43,369	$32,405	$37,228	$37,103	$36,547	$48,832	$1,306,019
(40)	NGPMP Credits	($83,333)	($83,333)	($1,558,333)	($83,333)	($210,855)	($83,333)	($83,333)	($2,232,073)	($83,333)	($83,333)	($2,232,073)	($83,333)	($6,900,000)
(41)	Total Costs	$16,544,977	$29,892,703	$48,122,648	$38,592,640	$34,890,123	$12,747,215	$7,492,944	$3,497,470	$6,478,390	$6,481,221	$4,247,135	$8,489,702	$217,477,170
(42)	Revenue	$10,020,588	$22,286,727	$31,981,531	$33,478,316	$31,359,056	$25,605,116	$15,289,061	$9,446,249	$5,124,882	$5,461,577	$6,123,883	$7,050,903	$203,227,889
(43)	P relim. Ending Balance	$20,434,499	$28,058,122	$44,224,989	$49,377,696	$52,953,660	$40,603,447	$32,855,652	$26,945,893	$28,330,141	$29,379,143	$27,533,045	$29,001,095	$28,159,391
(44)	Month's Average Balance	$17,172,305	$24,255,134	$36,154,431	$46,820,534	$51,188,126	$47,032,398	$36,753,710	$29,920,282	$27,653,387	$28,869,321	$28,471,419	$28,281,696	
(45)	Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(46)	Interest Applied	$17,647	$25,750	$38,383	$44,896	$54,344	$48,321	$39,019	$30,740	$29,358	$30,649	$29,251	$30,025	$418,384
(47)	Gas Purchase Plan Incentives/(Penalties)	$0	$0	$0	$0	$453,345	$0	$0	$0	$0	$0	$0	$0	$453,345
(48)														
(49)	**Ending Bal. W/ Interest**	**$20,452,146**	**$28,083,873**	**$44,263,373**	**$49,422,593**	**$53,461,348**	**$40,651,768**	**$32,894,671**	**$26,976,633**	**$28,359,499**	**$29,409,792**	**$27,562,296**	**$29,031,120**	$29,031,120

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
GCR - Gas Cost Revenue

Line No.	Description	Reference	Nov-14 fcst	Dec-14 fcst	Jan-15 fcst	Feb-15 fcst	Mar-15 fcst	Apr-15 fcst	May-15 fcst	Jun-15 fcst	Jul-15 fcst	Aug-15 fcst	Sep-15 fcst	Oct-15 fcst	Total Nov-Oct
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
(1)	**I. Fixed Cost Revenue --**														
(2)	(a) Low Load dth	AEL-1 pg 11, sum[Line (2)-(5), (7)]	1,369,255	2,973,054	4,353,681	4,492,436	4,033,250	2,874,923	1,768,136	910,498	637,310	627,644	643,170	745,617	25,428,974
(3)	Fixed Cost Factor	AEL-1 pg 1, (e)1	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	$1.0659	
(4)	Low Load Revenue	(2) * (3)	$1,459,489	$3,168,978	$4,640,588	$4,788,488	$4,299,041	$3,064,380	$1,884,656	$970,499	$679,309	$669,006	$685,555	$794,754	$27,104,743
(5)	(b) High Load dth	AEL-1 pg 11, sum[Line (1), (6), (8)]	68,747	103,917	149,437	173,578	140,900	128,267	77,107	60,242	50,278	49,189	50,449	47,106	1,099,216
(6)	Fixed Cost Factor	AEL-1 pg 1, (d)1	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	$0.8898	
(7)	High Load Revenue	(5) * (6)	$61,171	$92,465	$132,969	$154,450	$125,372	$114,132	$68,610	$53,603	$44,737	$43,768	$44,890	$41,915	$978,082
(8)	sub-total Dth	(2) + (5)	1,438,002	3,076,971	4,503,117	4,666,014	4,174,149	3,003,189	1,845,243	970,739	687,588	676,833	693,620	792,724	26,528,190
(9)	FT-2 Storage Revenue from marketers	[AEL-5 pg 3, Line (5)] / 12	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$130,929	$1,571,148
(10)	**TOTAL Fixed Revenue**	(4) + (7) + (9)	**$1,651,589**	**$3,392,372**	**$4,904,486**	**$5,073,867**	**$4,555,342**	**$3,309,441**	**$2,084,195**	**$1,155,031**	**$854,975**	**$843,703**	**$861,374**	**$967,598**	**$29,653,973**
(11)	**II. Variable Cost Revenue --**														
(12)	(a) Firm Sales dth	(8)	1,438,002	3,076,971	4,503,117	4,666,014	4,174,149	3,003,189	1,845,243	970,739	687,588	676,833	693,620	792,724	26,528,190
(13)	Variable Cost Factor	AEL-1 pg 1, Line (2)	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	$5.5622	
(14)	Variable Revenue	(12) * (13)	$7,998,456	$17,114,726	$25,047,240	$25,953,304	$23,217,452	$16,704,339	$10,263,612	$5,399,446	$3,824,503	$3,764,680	$3,858,051	$4,409,287	$147,555,096
(15)	**TOTAL Variable Revenue**	(14)	**$7,998,456**	**$17,114,726**	**$25,047,240**	**$25,953,304**	**$23,217,452**	**$16,704,339**	**$10,263,612**	**$5,399,446**	**$3,824,503**	**$3,764,680**	**$3,858,051**	**$4,409,287**	**$147,555,096**
(16)	**Total Gas Cost Revenue**	(10) + (15)	**$9,650,045**	**$20,507,098**	**$29,951,726**	**$31,027,171**	**$27,772,794**	**$20,013,780**	**$12,347,807**	**$6,554,477**	**$4,679,478**	**$4,608,383**	**$4,719,425**	**$5,376,885**	**$177,209,069**

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Working Capital Estimate

Line No.	Description (a)	Source (b)	Nov-14 (c)	Dec-14 (d)	Jan-15 (e)	Feb-15 (f)	Mar-15 (g)	Apr-15 (h)	May-15 (i)	Jun-15 (j)	Jul-15 (k)	Aug-15 (l)	Sep-15 (m)	Oct-15 (n)	Total (o)
(1)	**Fixed Costs**	AEL-3, Line (4)	$3,211,248	$3,449,789	$3,448,450	$3,446,826	$3,315,450	$3,925,971	$3,926,512	$3,925,971	$3,926,512	$3,926,512	$3,925,971	$3,926,512	$44,355,723
(2)	Capacity Release Revenue		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(3)	Less: LNG Demand to DAC	Dkt 4431	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(4)	Less: redits C		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(5)	Plus: Supply Related LNG O&M Costs	Dkt 4323	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(6)	Allowable Working Capital Costs	sum[(1):(5)]	$3,087,182	$3,325,723	$3,324,384	$3,322,760	$3,191,384	$3,801,905	$3,802,446	$3,801,905	$3,802,446	$3,802,446	$3,801,905	$3,802,446	$42,866,933
(7)	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
(8)	Working Capital Requirement	[(6) * (7)] / 365	$181,932	$195,990	$195,911	$195,815	$188,073	$224,052	$224,084	$224,052	$224,084	$224,084	$224,052	$224,084	
(9)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(10)	Return on Working Capital Requirement	(8) * (9)	$13,718	$14,778	$14,772	$14,764	$14,181	$16,894	$16,896	$16,894	$16,896	$16,896	$16,894	$16,896	
(11)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(12)	Interest Expense	(8) * (11)	$5,203	$5,605	$5,603	$5,600	$5,379	$6,408	$6,409	$6,408	$6,409	$6,409	$6,408	$6,409	
(13)	Taxable Income	(10) - (12)	$8,514	$9,172	$9,169	$9,164	$8,802	$10,486	$10,487	$10,486	$10,487	$10,487	$10,486	$10,487	
(14)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(15)	Return and Tax Requirement	(13) / (14)	$13,099	$14,111	$14,106	$14,099	$13,541	$16,132	$16,134	$16,132	$16,134	$16,134	$16,132	$16,134	
(16)	**Fixed Working Capital Requirement**	(12) + (15)	$18,302	$19,717	$19,709	$19,699	$18,920	$22,540	$22,543	$22,540	$22,543	$22,543	$22,540	$22,543	$254,137
(17)	**Variable Costs**	AEL-3, Line (19)	$7,883,231	$18,130,078	$24,626,234	$21,779,140	$14,542,444	$6,534,003	$3,638,315	$2,665,126	$2,084,637	$1,980,297	$1,826,892	$3,294,789	$108,985,186
(18)	Less: on-firm alNs S		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(19)	Less: Supply Refunds		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(20)	Less: Balancing Related LNG Commodity to DAC	Dkt 4431	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(21)	Plus: Supply Related LNG O&M Costs	Dkt 4323	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(22)	Allowable Working Capital Costs	sum[(17):(21)]	$7,883,231	$18,130,078	$24,626,234	$21,779,140	$14,542,444	$6,534,003	$3,638,315	$2,665,126	$2,084,637	$1,980,297	$1,826,892	$3,294,789	$108,985,186
(23)	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
(24)	Working Capital Requirement	[(22) * (23)] / 365	$464,571	$1,068,433	$1,451,261	$1,283,478	$857,008	$385,059	$214,411	$157,060	$122,851	$116,702	$107,661	$194,167	
(25)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(26)	Return on Working Capital Requirement	(24) * (25)	$35,029	$80,560	$109,425	$96,774	$64,618	$29,033	$16,167	$11,842	$9,263	$8,799	$8,118	$14,640	
(27)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(28)	Interest Expense	(24) * (27)	$13,287	$30,557	$41,506	$36,707	$24,510	$11,013	$6,132	$4,492	$3,514	$3,338	$3,079	$5,553	
(29)	Taxable Income	(26) - (28)	$21,742	$50,003	$67,919	$60,067	$40,108	$18,021	$10,034	$7,350	$5,749	$5,462	$5,039	$9,087	
(30)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(31)	Return and Tax Requirement	(29) / (30)	$33,449	$76,927	$104,491	$92,410	$61,705	$27,724	$15,438	$11,308	$8,845	$8,403	$7,752	$13,980	
(32)	**Variable Working Capital Requirement**	(28) + (31)	$46,736	$107,484	$145,997	$129,118	$86,215	$38,737	$21,570	$15,800	$12,359	$11,740	$10,831	$19,533	$646,120

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing

Storage Fixed Cost Working Capital Calculation for FT-2 Demand Rate (see AEL-5 pg 2)

Line No.	Description (a)	Source (b)	Nov-14 (c)	Dec-14 (d)	Jan-15 (e)	Feb-15 (f)	Mar-15 (g)	Apr-15 (h)	May-15 (i)	Jun-15 (j)	Jul-15 (k)	Aug-15 (l)	Sep-15 (m)	Oct-15 (n)	Total (o)
(33)	**Storage Fixed Costs**	AEL-1 pg 4, Line (58)	$834,957	$1,072,957	$1,072,957	$1,072,957	$939,957	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$1,547,337	$15,825,143
(34)	Less: LNG Demand to DAC	Dkt 4431	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(35)	Less: redits C		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(36)	Plus: Supply Related LNG O&M Costs	Dkt 4323	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(37)	Allowable Working Capital Costs	sum[(33):(36)]	$710,891	$948,891	$948,891	$948,891	$815,891	$1,423,271	$1,423,271	$1,423,271	$1,423,271	$1,423,271	$1,423,271	$1,423,271	$14,336,354
(38)	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
(39)	Working Capital Requirement	[(37) * (38)] / 365	$41,894	$55,920	$55,920	$55,920	$48,082	$83,876	$83,876	$83,876	$83,876	$83,876	$83,876	$83,876	
(40)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(41)	Return on Working Capital Requirement	(39) * (40)	$3,159	$4,216	$4,216	$4,216	$3,625	$6,324	$6,324	$6,324	$6,324	$6,324	$6,324	$6,324	
(42)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(43)	Interest Expense	(39) * (42)	$1,198	$1,599	$1,599	$1,599	$1,375	$2,399	$2,399	$2,399	$2,399	$2,399	$2,399	$2,399	
(44)	Taxable Income	(41) - (43)	$1,961	$2,617	$2,617	$2,617	$2,250	$3,925	$3,925	$3,925	$3,925	$3,925	$3,925	$3,925	
(45)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(46)	Return and Tax Requirement	(44) / (45)	$3,016	$4,026	$4,026	$4,026	$3,462	$6,039	$6,039	$6,039	$6,039	$6,039	$6,039	$6,039	
(47)	**Storage Fixed Working Capital Requirement**	(43) + (46)	$4,215	$5,626	$5,626	$5,626	$4,837	$8,438	$8,438	$8,438	$8,438	$8,438	$8,438	$8,438	$84,993

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Inventory Finance Estimate

Line No.	Description (a)	Source (b)	Nov-14 (c)	Dec-14 (d)	Jan-15 (e)	Feb-15 (f)	Mar-15 (g)	Apr-15 (h)	May-15 (i)	Jun-15 (j)	Jul-15 (k)	Aug-15 (l)	Sep-15 (m)	Oct-15 (n)	Total (o)
(1)	**Storage Inventory Balance**	EDA-2 pg 15	$17,333,766	$14,052,199	$10,449,691	$7,121,205	$4,106,169	$5,512,113	$6,837,609	$8,284,276	$9,541,429	$10,876,377	$12,269,448	$13,554,526	
(2)	Hedging														
(3)	Subtotal	(1) + (2)	$17,333,766	$14,052,199	$10,449,691	$7,121,205	$4,106,169	$5,512,113	$6,837,609	$8,284,276	$9,541,429	$10,876,377	$12,269,448	$13,554,526	
(4)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(5)	Return on Working Capital Requirement	(3) * (4)	$1,306,966	$1,059,536	$787,907	$536,939	$309,605	$415,613	$515,556	$624,634	$719,424	$820,079	$925,116	$1,022,011	$9,043,386
(6)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(7)	Interest Charges Financed	(3) * (6)	$495,746	$401,893	$298,861	$203,666	$117,436	$157,646	$195,556	$236,930	$272,885	$311,064	$350,906	$387,659	$3,430,250
(8)	Taxable Income	(5) - (7)	$811,220	$657,643	$489,046	$333,272	$192,169	$257,967	$320,000	$387,704	$446,539	$509,014	$574,210	$634,352	
(9)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(10)	Return and Tax Requirement	(8) / (9)	$1,248,031	$1,011,758	$752,378	$512,727	$295,644	$396,872	$492,308	$596,468	$686,983	$783,099	$883,400	$975,926	$8,635,594
(11)	Working Capital Requirement	(7) + (10)	$1,743,777	$1,413,651	$1,051,239	$716,393	$413,081	$554,519	$687,863	$833,398	$959,868	$1,094,163	$1,234,306	$1,363,585	$12,065,844
(12)	Storage-Related Inventory Costs	(11) / 12	$145,315	$117,804	$87,603	$59,699	$34,423	$46,210	$57,322	$69,450	$79,989	$91,180	$102,859	$113,632	$1,005,487
(13)	**LNG Inventory Balance**	EDA-2 pg 17	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
(14)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(15)	Return on Working Capital Requirement	(13) * (14)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$2,289,060
(16)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(17)	Interest Charges Financed	(13) * (16)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$868,264
(18)	Taxable Income	(15) - (17)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	
(19)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(20)	Return and Tax Requirement	(18) / (19)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$2,185,839
(21)	Working Capital Requirement	(17) + (20)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$3,054,103
(22)	LNG-Related Inventory Costs	(21) / 12	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$254,509
(23)	Total Inventory Financing Costs	(12) + (22)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	$1,259,996

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Forecasted Throughput (Dth)

Line No.	Rate Class	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-Oct
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
	SALES													
(1)	Residential Non-Heating	45,060	82,938	115,737	119,268	108,822	83,093	55,290	37,237	28,824	27,104	27,648	30,965	761,987
(2)	Residential Heating	1,044,744	2,226,624	3,239,393	3,325,991	2,989,103	2,151,864	1,342,728	702,519	482,963	461,730	466,391	539,594	18,973,642
(3)	Small C&I	111,656	291,880	477,466	499,885	438,170	284,646	168,646	63,417	50,994	55,947	44,572	61,132	2,548,411
(4)	Medium C&I	168,278	348,704	483,327	511,636	462,400	333,663	189,887	116,572	85,200	88,992	87,441	100,796	2,976,895
(5)	Large LLF	34,040	79,793	117,993	119,645	112,741	81,173	52,135	15,221	10,637	10,939	14,588	20,838	669,743
(6)	Large HLF	11,489	10,927	15,622	24,096	12,656	5,673	4,083	4,056	3,333	3,964	4,128	5,045	105,071
(7)	Extra Large LLF	10,538	26,053	35,502	35,280	30,836	23,576	14,740	12,769	7,516	10,037	30,179	23,257	260,283
(8)	Extra Large HLF	12,198	10,051	18,078	30,213	19,422	39,501	17,735	18,949	18,121	18,121	18,673	11,097	232,158
(9)	**Total Sales**	1,438,002	3,076,971	4,503,117	4,666,014	4,174,149	3,003,189	1,845,243	970,739	687,588	676,833	693,620	792,724	26,528,190
	TRANSPORTATION													
(10)	FT- Small	267	658	1,086	1,100	978	711	533	313	250	257	286	428	6,866
(11)	FT- Medium	140,980	262,162	368,384	375,480	329,017	246,819	161,930	82,418	82,025	82,722	83,329	106,527	2,321,794
(12)	FT- Large LLF	146,243	288,013	370,895	421,795	310,375	277,414	149,244	44,834	29,887	53,920	59,894	109,884	2,262,397
(13)	FT- Large HLF	120,908	119,808	117,689	245,248	139,258	116,728	33,463	33,093	37,198	30,281	43,814	40,884	1,078,372
(14)	FT- Extra Large LLF	45,410	94,412	96,830	104,558	68,702	76,321	98,515	30,948	29,824	28,556	52,229	72,018	798,324
(15)	FT- Extra Large HLF	388,887	479,280	532,383	572,604	426,682	474,397	343,775	316,614	405,341	444,294	362,616	367,698	5,114,573
(16)	**Total FT Transportation**	842,695	1,244,332	1,487,267	1,720,784	1,275,012	1,192,390	787,461	508,221	584,525	640,032	602,169	697,439	11,582,327
	Total THROUGHPUT													
(17)	Residential Non-Heating	45,060	82,938	115,737	119,268	108,822	83,093	55,290	37,237	28,824	27,104	27,648	30,965	761,987
(18)	Residential Heating	1,044,744	2,226,624	3,239,393	3,325,991	2,989,103	2,151,864	1,342,728	702,519	482,963	461,730	466,391	539,594	18,973,642
(19)	Small C&I	111,924	292,538	478,552	500,985	439,148	285,357	169,179	63,729	51,244	56,204	44,858	61,560	2,555,277
(20)	Medium C&I	309,258	610,866	851,711	887,115	791,416	580,483	351,817	198,991	167,224	171,714	170,770	207,323	5,298,689
(21)	Large LLF	180,283	367,805	488,889	541,439	423,116	358,586	201,379	60,055	40,524	64,859	74,482	130,722	2,932,140
(22)	Large HLF	132,397	130,735	133,311	269,344	151,913	122,401	37,546	37,149	40,531	34,245	47,943	45,929	1,183,444
(23)	Extra Large LLF	55,948	120,466	132,332	139,838	99,538	99,898	113,255	43,717	37,340	38,593	82,408	95,275	1,058,607
(24)	Extra Large HLF	401,085	489,331	550,460	602,818	446,104	513,898	361,510	335,564	423,462	462,415	381,290	378,795	5,346,731
(25)	**Total Throughput**	2,280,698	4,321,303	5,990,384	6,386,798	5,449,161	4,195,580	2,632,704	1,478,960	1,272,113	1,316,865	1,295,789	1,490,163	38,110,517

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Design Winter Period and Design Day Throughput (Dth)

Line No.	Rate Class (a)	Nov-14 (b)	Dec-14 (c)	Jan-15 (d)	Feb-15 (e)	Mar-15 (f)	Total (g)	% (h)
	SALES (dth)							
(1)	Residential Non-Heating	82,450	108,645	120,286	104,840	98,469	514,690	2.61%
(2)	Residential Heating	2,193,617	3,003,064	3,368,645	2,923,156	2,683,484	14,171,966	71.89%
(3)	Small C&I	308,423	428,725	483,350	418,720	380,974	2,020,192	10.25%
(4)	Medium C&I	340,133	459,710	513,449	446,196	412,732	2,172,220	11.02%
(5)	Large LLF	78,569	109,552	123,635	107,067	97,242	516,066	2.62%
(6)	Large HLF	12,968	17,327	19,276	16,773	15,623	81,967	0.42%
(7)	Extra Large LLF	25,439	30,481	32,564	28,732	28,661	145,877	0.74%
(8)	Extra Large HLF	17,879	18,463	18,457	16,673	18,468	89,940	0.46%
(9)	Total Sales	3,059,479	4,175,967	4,679,662	4,062,157	3,735,652	19,712,917	100.00%
(10)	Low Load Factor	2,946,182	4,031,533	4,521,643	3,923,871	3,603,092	19,026,320	96.52%
(11)	High Load Factor	113,298	144,434	158,019	138,286	132,560	686,597	3.48%

2014/2015 Design Day Sendout

(12)	Pipeline	179,070	Dktherm
(13)	Underground Storage	42,473	Dktherm
(14)	LNG	118,286	Dktherm
(15)	Total Projected 2014/2015 Design Day	339,829	Dktherm

Attachment AEL-2
REDACTED

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4520
GAS COST RECOVERY FILING
WITNESS: ANN E. LEARY
SEPTEMBER 2, 2014

Attachment AEL-2
Annual GCR Reconciliation Filing

Deferred Gas Cost Balances

Line No.	Description	Reference	Apr Actual	May Actual	Jun Actual	Jul Actual	Aug Actual	Sep Actual	Oct Actual	Nov Actual	Dec Actual	Jan Actual	Feb Actual	Mar Actual	Apr-Mar
1	# of Days in Month		30	31	30	31	31	30	31	30	31	31	28	31	**365**
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
2	I. Fixed Cost Deferred														
3	Beginning Balance		($9,366,432)	($12,083,333)	($12,098,295)	($10,643,044)	($8,946,896)	($7,571,274)	($5,761,877)	($5,826,212)	($4,859,848)	($5,978,214)	($10,375,006)	($13,591,019)	($9,366,432)
4															
5	Supply Fixed Costs (net of cap rel)	Sch. 2, line 47	$3,473,570	$3,302,783	$3,457,201	$3,448,816	$3,476,650	$3,522,553	$3,452,409	$3,143,675	$3,380,096	$3,381,417	$3,490,908	$3,422,689	$40,952,765
6	LNG Demand to DAC	Dkt 4339	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
7	Supply Related LNG O & M	Dkt 4323	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
8	NGPMP Credits		($383,333)	($383,333)	($383,333)	($383,333)	($907,771)	($383,333)	($2,053,042)	($83,333)	($83,333)	($1,558,333)	($83,333)	($210,855)	($6,896,669)
9	Working Capital	Sch. 4, line 15	$19,858	$18,845	$19,761	$19,711	$19,876	$20,148	$19,732	$17,902	$19,303	$19,311	$19,960	$19,556	$233,963
10	Total Supply Fixed Costs	sum[(4):(9)]	$3,033,993	$2,862,194	$3,017,528	$3,009,093	$2,512,653	$3,083,266	$1,342,997	$3,002,143	$3,239,965	$1,766,294	$3,351,434	$3,155,290	$33,376,850
11	Supply Fixed - Revenue	Sch. 3, line 10	$5,739,881	$2,864,327	$1,550,600	$1,302,552	$1,128,267	$1,267,024	$1,401,184	$2,022,091	$4,352,582	$6,154,409	$6,555,963	$6,065,970	$40,404,851
12	Prelim. Ending Balance	(3) + (10) - (11)	($12,072,320)	($12,085,466)	($10,631,367)	($8,936,503)	($7,562,510)	($5,755,032)	($5,820,064)	($4,846,161)	($5,972,464)	($10,366,329)	($13,579,534)	($16,501,700)	($16,394,432)
13	Month's Average Balance	[(3) + (12)] / 2	($10,719,376)	($12,084,400)	($11,364,831)	($9,789,773)	($8,254,703)	($6,663,153)	($5,790,971)	($5,336,186)	($5,416,156)	($8,172,272)	($11,977,270)	($15,046,360)	
14	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
15	Interest Applied	[(13) * (14)] / 365 * (1)	($11,013)	($12,829)	($11,676)	($10,393)	($8,764)	($6,846)	($6,148)	($5,482)	($5,750)	($8,676)	($11,485)	($15,974)	($115,036)
16	Marketer Reconcilation	Dkt 4436	$0	$0	$0	$0	$0	$0	$0	($8,205)	$0	$0	$0	$0	($8,205)
17	Fixed Ending Balance	(12) + (15) + (16)	($12,083,333)	($12,098,295)	($10,643,044)	($8,946,896)	($7,571,274)	($5,761,877)	($5,826,212)	($4,859,848)	($5,978,214)	($10,375,006)	($13,591,019)	($16,517,674)	($16,517,674)
18	II. Variable Cost Deferred														
19	Beginning Balance		$22,072,500	$17,209,139	$15,053,460	$15,222,414	$15,836,644	$16,752,198	$17,308,710	$19,736,322	$25,311,994	$34,062,087	$54,638,378	$63,013,612	$22,072,500
20															
21	Variable Supply Costs	Sch. 2, line 106	$9,316,359	$4,547,178	$3,611,984	$3,593,778	$3,275,488	$3,372,384	$5,586,658	$13,317,378	$26,368,013	$46,645,065	$35,110,868	$31,519,121	$186,264,272
22	Supply Related LNG to DAC	Dkt 4339	$0	$0	$0	$0	$0	$0	$0	($76,679)	($85,575)	($722,185)	($200,181)	($72,042)	($1,156,661)
23	Supply Related LNG O & M	Dkt 4323	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$572,694
24	Inventory Financing - LNG	Sch. 5, line 22	$27,913	$35,946	$37,377	$36,346	$35,796	$35,366	$37,419	$36,806	$35,144	$15,216	$10,979	$7,591	$351,898
25	Inventory Financing - UG	Sch. 5, line 12	$104,055	$128,247	$135,700	$136,667	$145,694	$153,394	$156,127	$147,313	$131,616	$98,279	$64,847	$46,005	$1,447,943
26	Working Capital	Sch. 4, line 30	$55,232	$26,958	$21,414	$21,306	$19,419	$19,993	$33,121	$78,498	$155,816	$272,254	$206,968	$186,434	$1,097,412
27	Total Supply Variable Costs	sum[(20):(26)]	$9,551,283	$4,786,053	$3,854,199	$3,835,821	$3,524,121	$3,628,861	$5,861,048	$13,551,040	$26,652,738	$46,356,354	$35,241,206	$31,734,834	$188,577,558
28	Supply Variable - Revenue	Sch. 3, line 23	$14,434,813	$6,958,849	$3,700,789	$3,238,070	$2,625,857	$3,089,837	$3,453,090	$7,998,497	$17,934,145	$25,827,122	$26,922,354	$25,293,086	$141,476,508
29	Prelim. Ending Balance	(19) + (27) - (28)	$17,188,971	$15,036,343	$15,206,870	$15,820,166	$16,734,909	$17,291,222	$19,716,668	$25,288,865	$34,030,587	$54,591,319	$62,957,231	$69,455,360	$69,173,550
30	Month's Average Balance	[(19) + (29)] / 2	$19,630,735	$16,122,741	$15,130,165	$15,521,290	$16,285,776	$17,021,710	$18,512,689	$22,512,594	$29,671,291	$44,326,703	$58,797,805	$66,234,486	
31	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
32	Interest Applied	[(30) * (31)] / 365 * (1)	$20,169	$17,117	$15,545	$16,478	$17,290	$17,488	$19,654	$23,129	$31,500	$47,059	$56,381	$70,317	$352,127
33	Gas Procurement Incentive/(penalty)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$453,345	$453,345
34	Variable Ending Balance	(29) + (32) + (33)	$17,209,139	$15,053,460	$15,222,414	$15,836,644	$16,752,198	$17,308,710	$19,736,322	$25,311,994	$34,062,087	$54,638,378	$63,013,612	$69,979,022	$69,979,022
35	**GCR Deferred Summary**														
36	Beginning Balance	(3) + (19)	$12,706,068	$5,125,806	$2,955,164	$4,579,371	$6,889,748	$9,180,924	$11,546,833	$13,910,110	$20,452,146	$28,083,873	$44,263,373	$49,422,593	$12,706,068
37	Gas Costs	sum[(4):(7),(16),(20):(23)]	$12,761,552	$7,821,584	$7,040,809	$7,014,218	$6,723,761	$6,866,560	$9,010,690	$16,347,793	$29,634,158	$49,275,921	$38,373,219	$34,841,392	$225,711,657
38	Inventory Finance	(24) + (25)	$131,968	$164,192	$173,077	$173,012	$181,490	$188,759	$193,546	$184,118	$166,760	$113,495	$75,826	$53,596	$1,799,840
39	Working Capital	(9) + (26)	$75,090	$45,803	$41,174	$41,017	$39,295	$40,141	$52,853	$96,399	$175,119	$291,565	$226,929	$205,990	$1,331,375
40	NGPMP Credits	(8)	($383,333)	($383,333)	($383,333)	($383,333)	($907,771)	($383,333)	($2,053,042)	($83,333)	($83,333)	($1,558,333)	($83,333)	($210,855)	($6,896,669)
41	Total Costs	sum[(37):(40)]	$12,585,277	$7,648,246	$6,871,727	$6,844,914	$6,036,775	$6,712,127	$7,204,046	$16,544,977	$29,892,703	$48,122,648	$38,592,640	$34,890,123	$221,946,203
42	Revenue	(11) + (28)	$20,174,694	$9,823,176	$5,251,389	$4,540,622	$3,754,124	$4,356,861	$4,854,274	$10,020,588	$22,286,727	$31,981,531	$33,478,316	$31,359,056	$181,881,358
43	Prelim. Ending Balance	(36) + (41) - (42)	$5,116,651	$2,950,877	$4,575,502	$6,883,663	$9,172,398	$11,536,190	$13,896,604	$20,434,499	$28,058,123	$44,224,990	$49,377,697	$52,953,660	
44	Month's Average Balance	[(36) + (43)] / 2	$8,911,359	$4,038,342	$3,765,333	$5,731,517	$8,031,073	$10,358,557	$12,721,719	$17,172,305	$24,255,135	$36,154,431	$46,820,535	$51,188,126	
45	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
46	Interest Applied	(15) + (32)	$9,156	$4,287	$3,868	$6,085	$8,526	$10,642	$13,506	$17,647	$25,750	$38,383	$44,896	$54,344	$237,091
47	Gas Purchase Plan Incentives/(Penalties)	(33)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$453,345	$453,345
48															
49	**Ending Bal. W/ Interest**	(43) + (46) + (47)	**$5,125,806**	**$2,955,164**	**$4,579,371**	**$6,889,748**	**$9,180,924**	**$11,546,833**	**$13,910,110**	**$20,452,146**	**$28,083,873**	**$44,263,373**	**$49,422,593**	**$53,461,348**	$53,461,348

REDACTED

REDACTED

Supply Actuals for Filing

Line No.	Description	Reference	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr-Mar
			Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1	**SUPPLY FIXED COSTS - Pipeline Delivery**														
2	Algonquin (includes East to West, Hubline)		$908,385	$877,351	$909,946	$913,262	$907,307	$908,873	$908,978	$844,755	$808,419	$809,474	$836,695	$837,266	$10,470,711
3	TETCO/Texas Eastern		$747,646	$747,646	$747,646	$749,165	$761,143	$764,217	$731,564	$612,516	$706,349	$709,129	$707,672	$707,729	$8,692,420
4	Tennessee		$1,015,024	$879,565	$1,016,812	$1,014,948	$1,020,751	$1,020,212	$991,263	$1,000,341	$994,584	$999,021	$999,021	$999,007	$11,950,549
5	NETNE		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
6	Iroquois		$0	$0	$0	$0	$0	$0	$0	$6,676	$6,804	$6,808	$6,807	$6,676	$33,771
7	Union		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8	Transcanada		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9	Dominion		$33,304	$2,258	($28,789)	$522	$2,258	$2,258	$2,258	$2,258	$2,150	$2,150	$2,150	$2,150	$24,924
10	Transco		$7,249	$8,349	$7,817	$8,077	$8,077	$7,817	$8,077	$7,817	$8,077	$8,077	$7,295	$8,077	$94,805
11	National Fuel		$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,667	$4,664	$55,966
12	Columbia		$267,644	$277,790	$283,479	$271,820	$271,826	$271,826	$271,820	$285,971	$267,346	$261,543	$260,756	$281,122	$3,272,941
13	Alberta Northeast		$374	$357	$399	$539	$466	$459	$490	$496	$414	$454	$491	$526	$5,464
14	Shell Energy		($3,125)	($3,125)	($3,125)	($3,125)	$11,384	$7,179	($3,125)	($3,125)	$0	$0	$0	$0	($188)
15	Coral Energy		$0	$0	$0	$0	$0	$0	$0	$3,125	$0	$0	$0	$0	$3,125
16	DB Energy Trading		$0	$0	$0	$0	$0	$0	$0	$18,750	$0	$0	$0	$0	$18,750
17	Emera Energy		$0	$0	$0	$0	$0	$0	$0	($950)	($950)	($950)	($950)	($950)	($4,750)
18	EDF Trading		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
19	Westerly Lateral		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
20	Less Credits from Mkter Releases		($606,773)	($630,025)	($610,464)	($641,422)	($641,502)	($606,659)	($607,587)	($617,422)	($639,849)	($641,040)	($566,612)	($654,334)	($7,463,690)
21			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
22	**Supply Fixed - Supplier**														
23	Distrigas FCS		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
24			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
25															
26	**STORAGE FIXED COSTS - Facilities**														
27	Texas Eastern		$85,740	$87,161	$85,713	$85,557	$85,562	$93,741	$93,741	$187,481	$85,169	$85,192	$93,871	$93,860	$1,162,788
28	Dominion		$82,486	$82,486	$82,486	$82,486	$82,486	$82,486	$82,486	$82,651	$82,805	$82,782	$82,782	$82,782	$991,205
29	Tennessee		$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$49,804	$597,648
30	Columbia		$12,408	$9,751	$9,735	$9,735	$9,735	$9,735	$16,810	($4,151)	$9,735	$9,735	$9,735	$9,735	$112,697
31	Iroquois		$6,676	$6,338	$6,676	$6,676	$6,676	$6,676	$6,519	$3	$0	$0	$0	$0	$46,241
32	Keyspan LNG Tank Lease Payment		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
33			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
34			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
35			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
36	**STORAGE FIXED COSTS - Delivery**														
37	Algonquin		$152,235	$150,929	$150,909	$150,794	$150,745	$151,766	$151,800	$210,918	$210,918	$210,918	$210,918	$210,918	$2,113,766
38	TETCO		$53,421	$53,430	$53,421	$53,421	$53,375	$53,375	$53,375	$87,499	$87,499	$87,499	$87,499	$87,499	$811,312
39	Tennessee		$91,993	$98,171	$90,173	$91,993	$91,993	$94,224	$89,570	$91,993	$91,993	$91,993	$91,993	$91,993	$1,108,084
40	Dominion		$0	$0	$0	$0	$0	$0	$0	$31,047	$31,047	$31,047	$31,047	$31,047	$155,233
41	Columbia		$14,115	$7,053	$7,070	$7,070	$7,070	$7,070	$7,070	$14,145	$14,145	$14,145	$14,145	$14,145	$127,242
42	Distrigas FLS call payment		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
43	Hess Peaking Supply at Salem									[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
44	Hess Peaking Supply at Dracut									[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
45	Repsol Peaking Supply at Dracut									[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
46															
47	**TOTAL FIXED COSTS**	sum[(2):(46)]	$3,473,570	$3,302,783	$3,457,201	$3,448,816	$3,476,650	$3,522,553	$3,452,409	$3,143,675	$3,380,096	$3,381,417	$3,490,908	$3,422,689	$40,952,765

REDACTED

Supply Actuals for Filing

Line No.	Description	Reference	Apr Actual (a)	May Actual (b)	Jun Actual (c)	Jul Actual (d)	Aug Actual (e)	Sep Actual (f)	Oct Actual (g)	Nov Actual (h)	Dec Actual (i)	Jan Actual (j)	Feb Actual (k)	Mar Actual (l)	Apr-Mar (m)
48	**VARIABLE SUPPLY COSTS (Includes Injections)**														
49	Tennessee Zone 0														
50	Tennessee Zone 1														
51	Tennessee Connexion														
52	Tennessee Dracut														
53	TETCO STX														
54	TETCO ELA														
55	TETCO WLA														
56	TETCO ETX														
57	TETCO NF														
58	M3 Delivered														
59	Maumee														
60	Broadrun Col														
61	Columbia Eagle and Downingtown														
62	Transco Zone 2														
63	Dominion to TETCO FTS														
64	Transco Zone 3														
65	ANE to Tennessee														
66	Niagara to Tennessee														
67	TETCO to B & W														
68	DistriGas FCS														
69	Hubline														
70	Hess Peaking Supply at Salem														
71	Hess Peaking Supply at Dracut														
72	Repsol Peaking Supply at Dracut														
73	Total Pipeline Commodity Charges	sum[(49):(72)]	$7,941,734	$3,856,904	$2,792,963	$2,469,975	$2,265,723	$2,450,047	$4,475,226	$9,959,704	$22,047,331	$40,219,993	$31,651,323	$29,811,055	$159,941,979
74	Hedging Settlements and Amortization		$862,765	$337,000	$297,974	$615,731	$678,721	$493,451	$594,424	$1,348,648	$1,354,503	($710,147)	($3,861,267)	($2,353,427)	($341,624)
75	Hedging Contracts - Commission & Other Fees		$1,924	$976	$1,049	$1,664	$1,520	$1,378	$1,641	$1,143	$2,684	$971	$1,235	$1,664	$17,849
76	Hedging Contracts - Net Carry of Collateral		$741	$215	$1,530	$3,791	$6,002	$3,167	$2,970	$5,000	$1,228	$337	($168)	$1	$24,812
77	Refunds (Columbia)		($377,804)	$0	$0	$0	$0	$0	$0	$0	$0	$0	($38)	($11,119)	($388,961)
78	Less: Costs of Injections		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
79	**TOTAL VARIABLE SUPPLY COSTS**	sum[(73):(78)]	$8,429,361	$4,195,095	$3,093,515	$3,091,161	$2,951,966	$2,948,043	$5,074,261	$11,314,494	$23,405,746	$39,511,154	$27,791,085	$27,448,174	$159,254,055
80	Underground Storage		$739,630	$198,806	$73,200	$104,869	$30,166	$145,419	$316,040	$1,544,384	$2,726,704	$4,505,943	$5,336,672	$3,440,362	$19,162,195
81	LNG Withdrawals and Trucking		$101,650	$156,882	$101,975	$108,965	$101,117	$106,695	$105,925	$196,004	$204,753	$2,484,729	$549,035	$314,840	$4,532,570
82	Storage Delivery Costs		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
83	**TOTAL VARIABLE STORAGE COSTS**	sum[(80):(82)]	$841,280	$355,688	$175,175	$213,833	$131,284	$252,115	$421,965	$1,740,388	$2,931,457	$6,990,672	$5,885,707	$3,755,202	$23,694,765
84	**TOTAL VARIABLE COSTS**	(79) + (83)	$9,270,641	$4,550,782	$3,268,690	$3,304,995	$3,083,249	$3,200,158	$5,496,225	$13,054,882	$26,337,204	$46,501,826	$33,676,792	$31,203,376	$182,948,820
85	**TOTAL SUPPLY COSTS**	(47) + (84)	$12,744,210	$7,853,565	$6,725,891	$6,753,810	$6,559,899	$6,722,711	$8,948,634	$16,198,557	$29,717,300	$49,883,243	$37,167,700	$34,626,066	$223,901,585

REDACTED

Supply Actuals for Filing

Line No.	Description	Reference	Apr Actual (a)	May Actual (b)	Jun Actual (c)	Jul Actual (d)	Aug Actual (e)	Sep Actual (f)	Oct Actual (g)	Nov Actual (h)	Dec Actual (i)	Jan Actual (j)	Feb Actual (k)	Mar Actual (l)	Apr-Mar (m)
86	**Storage Costs for FT-2 Calculation**														
87	**Storage Fixed Costs - Facilities**		$400,855	$399,280	$398,154	$397,998	$398,003	$406,182	$413,100	$479,528	$391,254	$391,253	$399,932	$399,921	$4,875,459
88	**Storage Fixed Costs - Deliveries**		$663,428	$702,440	$694,430	$696,135	$696,040	$699,293	$694,673	$476,791	$790,601	$790,601	$779,351	$790,601	$8,474,385
89	**sub-total Storage Costs**	sum[(87):(88)]	$1,064,283	$1,101,719	$1,092,584	$1,094,132	$1,094,043	$1,105,475	$1,107,773	$956,319	$1,181,855	$1,181,854	$1,179,283	$1,190,522	$13,349,844
90	**LNG Demand to DAC**	Sch. 1, line 6	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
91	**Inventory Financing**	Sch. 5, line 23	$131,968	$164,192	$173,077	$173,012	$181,490	$188,759	$193,546	$184,118	$166,760	$113,495	$75,826	$53,596	$1,799,840
92	**Supply related LNG O&M Costs**	Sch. 1, line 7	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
93	**Working Capital Requirement**	Sch. 4, line 15	$19,858	$18,845	$19,761	$19,711	$19,876	$20,148	$19,732	$17,902	$19,303	$19,311	$19,960	$19,556	$233,963
94	**Total FT-2 Storage Fixed Costs**	sum[(89):(93)]	$1,140,008	$1,208,656	$1,209,321	$1,210,755	$1,219,309	$1,238,281	$1,244,950	$1,082,238	$1,291,817	$1,238,559	$1,198,969	$1,187,574	$14,470,438
95	**System Storage MDQ (Dth)**		138,170	139,384	139,697	139,530	138,919	139,328	140,083	140,976	139,864	125,864	144,604	144,188	1,670,606
96	**FT-2 Storage Cost per MDQ (Dth)**	(94) / (95)	$8.2508	$8.6714	$8.6567	$8.6773	$8.7771	$8.8875	$8.8872	$7.6768	$9.2362	$9.8405	$8.2914	$8.2363	$8.6618
97	Pipeline Variable	(84)	$9,270,641	$4,550,782	$3,268,690	$3,304,995	$3,083,249	$3,200,158	$5,496,225	$13,054,882	$26,337,204	$46,501,826	$33,676,792	$31,203,376	$182,948,820
98	Less Non-firm Gas Costs		($179,995)	($154,699)	($34,947)	($38,610)	($36,653)	($37,160)	($67,033)	($73,267)	($210,486)	($325,078)	($563,574)	$344,656	($1,376,844)
99	Less Company Use		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
100	Less Manchester St Balancing		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
101	Plus Cashout		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
102	Less Mkter W/drawals/Injections		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
103	Mkter Over-takes/Undertakes		($27,769)	($26,396)	$153,151	$94,371	($19,029)	($30,918)	($63,800)	$112,741	$143,771	$313,920	$1,976,793	($42,694)	$2,584,141
104	Plus Pipeline Srchg/Credit		$246,805	$239,232	$247,437	$239,859	$247,921	$248,123	$240,569	$248,767	$66,948	$59,522	$73,700	$59,012	$2,217,896
105	Less Mkter FT-2 Daily weather true-up		$6,677	($61,742)	($22,347)	($6,836)	$0	($7,819)	($19,305)	($25,745)	$30,576	$94,874	($52,843)	($45,230)	($109,741)
106	**TOTAL FIRM COMMODITY COSTS**	sum[(97):(105)]	$9,316,359	$4,547,178	$3,611,984	$3,593,778	$3,275,488	$3,372,384	$5,586,658	$13,317,378	$26,368,013	$46,645,065	$35,110,868	$31,519,121	$186,264,272

REDACTED

GCR Revenue

Line No.	Description	Reference	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr-Mar
			Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1	**I. Fixed Cost Revenue --**														
2	(a) Low Load dth	Sch. 6, line 24-28, 30	2,917,548	1,388,813	755,588	551,238	538,349	552,137	641,044	1,416,269	3,285,859	4,703,014	4,685,769	4,545,308	25,980,936
3	Fixed Cost Factor	(4) / (2)	$1.8180	$1.8181	$1.8173	$1.8173	$1.8171	$1.8282	$1.8142	$1.2372	$1.2241	$1.2235	$1.2238	$1.2239	
4	Low Load Revenue		$5,303,990	$2,524,943	$1,373,147	$1,001,739	$978,215	$1,009,424	$1,162,965	$1,752,236	$4,022,219	$5,753,942	$5,734,467	$5,563,140	$36,180,427
5	(b) High Load dth	Sch. 6, line 22, 23, 29, 31	142,513	97,046	34,902	134,856	18,882	101,823	69,384	110,468	154,377	228,604	237,820	228,266	1,558,940
6	Fixed Cost Factor	(7) / (5)	$1.3496	$1.3525	$1.3509	$1.3470	$1.3491	$1.3480	$1.6618	$1.1628	$0.9857	$0.9867	$0.9869	$0.9970	
7	High Load Revenue		$192,339	$131,254	$47,147	$181,647	$25,473	$137,262	$115,300	$128,451	$152,166	$225,569	$234,705	$227,581	$1,798,893
8	sub-total throughput Dth	(2) + (5)	3,060,061	1,485,859	790,490	686,094	557,230	653,960	710,428	1,526,737	3,440,236	4,931,618	4,923,590	4,773,574	27,539,876
9	FT-2 Storage Revenue from marketers		$243,552	$208,129	$130,305	$119,167	$124,579	$120,339	$122,919	$141,405	$178,197	$174,898	$586,791	$275,250	$2,425,531
10	**TOTAL Fixed Revenue**	(4) + (7) + (9)	**$5,739,881**	**$2,864,327**	**$1,550,600**	**$1,302,552**	**$1,128,267**	**$1,267,024**	**$1,401,184**	**$2,022,091**	**$4,352,582**	**$6,154,409**	**$6,555,963**	**$6,065,970**	**$40,404,851**
11	**II. Variable Cost Revenue --**														
12	(a) Firm Sales dth	(8)	3,060,061	1,485,859	790,490	686,094	557,230	653,960	710,428	1,526,737	3,440,236	4,931,618	4,923,590	4,773,574	27,539,876
13	Variable Supply Cost Factor	(14) / (12)	$4.6936	$4.6946	$4.6922	$4.6907	$4.6913	$4.7154	$4.7910	$5.2154	$5.1945	$5.1921	$5.1880	$5.1956	
14	Variable Supply Revenue		$14,362,800	$6,975,459	$3,709,166	$3,218,268	$2,614,136	$3,083,675	$3,403,662	$7,962,551	$17,870,149	$25,605,494	$25,543,823	$24,801,506	$139,150,689
15	(b) TSS Sales dth	Sch. 6, line 20	11,806	9,119	(1,027)	580	967	799	3,105	6,955	18,746	31,056	34,349	28,576	145,031
16	TSS Surcharge Factor	Company's website	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.7900	$0.1710	
17	TSS Surcharge Revenue	(15) * (16)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$27,136	$4,886	$32,022
18	(c) Default Sales dth	Sch. 6, line 60	6,429	1,890	(1,714)	1,457	1,242	946	1,265	2,475	7,881	7,468	49,428	3,273	82,040
19	Variable Supply Cost Factor	(20) / (18)	$11.0402	($9.2175)	$7.8958	$7.2286	$6.0904	$6.5121	$6.5112	$6.5115	$7.0126	$27.0856	$27.3405	$148.1097	
20	Variable Supply Revenue		$70,978	($17,422)	($13,537)	$10,531	$7,564	$6,162	$8,233	$16,114	$55,267	$202,267	$1,351,395	$484,822	$2,182,375
21	(d) Peaking Gas Revenue		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
22	(e) Deferred Responsibility		$1,035	$812	$5,160	$9,271	$4,156	$0	$41,195	$19,832	$8,729	$19,360	$0	$1,872	$111,421
23	**TOTAL Variable Revenue**	(14)+(17)+(20)+(21)+(22)	**$14,434,813**	**$6,958,849**	**$3,700,789**	**$3,238,070**	**$2,625,857**	**$3,089,837**	**$3,453,090**	**$7,998,497**	**$17,934,145**	**$25,827,122**	**$26,922,354**	**$25,293,086**	**$141,476,508**
24	**Total Gas Cost Revenue (w/o FT-2)**	(10) + (23)	**$20,174,694**	**$9,823,176**	**$5,251,389**	**$4,540,622**	**$3,754,124**	**$4,356,861**	**$4,854,274**	**$10,020,588**	**$22,286,727**	**$31,981,531**	**$33,478,316**	**$31,359,056**	**$181,881,358**

REDACTED

WORKING CAPITAL

Line No.	Description	Reference	Apr Actual (a)	May Actual (b)	Jun Actual (c)	Jul Actual (d)	Aug Actual (e)	Sep Actual (f)	Oct Actual (g)	Nov Actual (h)	Dec Actual (i)	Jan Actual (j)	Feb Actual (k)	Mar Actual (l)	Apr-Mar (m)
1	**Supply Fixed Costs**	Sch. 1, line 5	$3,473,570	$3,302,783	$3,457,201	$3,448,816	$3,476,650	$3,522,553	$3,452,409	$3,143,675	$3,380,096	$3,381,417	$3,490,908	$3,422,689	$40,952,765
2	Less: LNG Demand to DAC	Sch. 1, line 6	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
3	Plus: Supply Related LNG O&M Costs	Dkt 4323	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
4	Total Adjustments	(2) + (3)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
5	Allowable Working Capital Costs	(1) + (4)	$3,349,504	$3,178,717	$3,333,135	$3,324,750	$3,352,584	$3,398,487	$3,328,343	$3,019,609	$3,256,030	$3,257,351	$3,366,842	$3,298,623	$39,463,975
6	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
7	Working Capital Requirement	[(5) * (6)] / 365	$197,391	$187,327	$196,427	$195,933	$197,573	$200,278	$196,144	$177,950	$191,883	$191,961	$198,413	$194,393	
8	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
9	Return on Working Capital Requirement	(7) * (8)	$14,883	$14,124	$14,811	$14,773	$14,897	$15,101	$14,789	$13,417	$14,468	$14,474	$14,960	$14,657	
10	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
11	Interest Expense	(7) * (10)	$5,645	$5,358	$5,618	$5,604	$5,651	$5,728	$5,610	$5,089	$5,488	$5,490	$5,675	$5,560	
12	Taxable Income	(9) - (11)	$9,238	$8,767	$9,193	$9,170	$9,246	$9,373	$9,180	$8,328	$8,980	$8,984	$9,286	$9,098	
13	1 - Combined Tax Rate	Dkt 4323	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
14	Return and Tax Requirement	(12) / (13)	$14,212	$13,488	$14,143	$14,107	$14,225	$14,420	$14,122	$12,812	$13,816	$13,821	$14,286	$13,996	
15	**Supply Fixed Working Capital Requirement**	(11) + (14)	$19,858	$18,845	$19,761	$19,711	$19,876	$20,148	$19,732	$17,902	$19,303	$19,311	$19,960	$19,556	$233,963
16	**Supply Variable Costs**	Sch. 1, line 21	$9,316,359	$4,547,178	$3,611,984	$3,593,778	$3,275,488	$3,372,384	$5,586,658	$13,317,378	$26,368,013	$46,645,065	$35,110,868	$31,519,121	$186,264,272
17	Less: Balancing Related LNG Commodity (to DAC)	Sch. 1, line 22	$0	$0	$0	$0	$0	$0	$0	($76,679)	($85,575)	($722,185)	($200,181)	($72,042)	($1,156,661)
18	Plus: Supply Related LNG O&M Costs	Dkt 4323	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
19	Total Adjustments	(17) + (18)	$0	$0	$0	$0	$0	$0	$0	($76,679)	($85,575)	($722,185)	($200,181)	($72,042)	($1,156,661)
20	Allowable Working Capital Costs	(16) + (19)	$9,316,359	$4,547,178	$3,611,984	$3,593,778	$3,275,488	$3,372,384	$5,586,658	$13,240,699	$26,282,438	$45,922,880	$34,910,687	$31,447,079	$185,107,611
21	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
22	Working Capital Requirement	[(20) * (21)] / 365	$549,027	$267,972	$212,860	$211,787	$193,029	$198,740	$329,230	$780,294	$1,548,864	$2,706,305	$2,057,339	$1,853,224	
23	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
24	Return on Working Capital Requirement	(22) * (23)	$41,397	$20,205	$16,050	$15,969	$14,554	$14,985	$24,824	$58,834	$116,784	$204,055	$155,123	$139,733	
25	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
26	Interest Expense	(22) * (25)	$15,702	$7,664	$6,088	$6,057	$5,521	$5,684	$9,416	$22,316	$44,298	$77,400	$58,840	$53,002	
27	Taxable Income	(24) - (26)	$25,694	$12,541	$9,962	$9,912	$9,034	$9,301	$15,408	$36,518	$72,487	$126,655	$96,283	$86,731	
28	1 - Combined Tax Rate	Dkt 4323	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
29	Return and Tax Requirement	(27) / (28)	$39,530	$19,294	$15,326	$15,249	$13,898	$14,309	$23,705	$56,181	$111,518	$194,854	$148,128	$133,432	
30	**Supply Variable Working Capital Requirement**	(26) + (29)	$55,232	$26,958	$21,414	$21,306	$19,419	$19,993	$33,121	$78,498	$155,816	$272,254	$206,968	$186,434	$1,097,412

REDACTED

INVENTORY FINANCE

Line No.	Description	Reference	Apr Actual (a)	May Actual (b)	Jun Actual (c)	Jul Actual (d)	Aug Actual (e)	Sep Actual (f)	Oct Actual (g)	Nov Actual (h)	Dec Actual (i)	Jan Actual (j)	Feb Actual (k)	Mar Actual (l)	Apr-Mar (m)
1	**Storage Inventory Balance**		$12,147,854	$14,851,776	$15,562,508	$15,573,726	$16,605,174	$17,491,191	$17,809,379	$16,757,939	$14,909,989	$11,324,186	$7,678,242	$5,487,679	
2	Monthly Storage Deferral/Amortization		$264,306	$446,052	$624,371	$728,452	$773,861	$806,251	$814,139	$814,139	$789,715	$398,928	$56,990	($0)	
3	**Subtotal**	(1) + (2)	**$12,412,160**	**$15,297,828**	**$16,186,879**	**$16,302,178**	**$17,379,035**	**$18,297,443**	**$18,623,518**	**$17,572,078**	**$15,699,704**	**$11,723,114**	**$7,735,231**	**$5,487,679**	
4	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
5	Return on Working Capital Requirement	(3) * (4)	$935,877	$1,153,456	$1,220,491	$1,229,184	$1,310,379	$1,379,627	$1,404,213	$1,324,935	$1,183,758	$883,923	$583,236	$413,771	$13,022,850
6	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
7	Interest Charges Financed	(3) * (6)	$354,988	$437,518	$462,945	$466,242	$497,040	$523,307	$532,633	$502,561	$449,012	$335,281	$221,228	$156,948	$4,939,702
8	Taxable Income	(5) - (7)	$580,889	$715,938	$757,546	$762,942	$813,339	$856,320	$871,581	$822,373	$734,746	$548,642	$362,009	$256,823	
9	1 - Combined Tax Rate	Dkt 4323	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
10	Return and Tax Requirement	(8) / (9)	$893,676	$1,101,444	$1,165,455	$1,173,757	$1,251,291	$1,317,416	$1,340,893	$1,265,190	$1,130,379	$844,064	$556,937	$395,113	$12,435,613
11	Working Capital Requirement	(7) + (10)	$1,248,663	$1,538,961	$1,628,400	$1,639,999	$1,748,331	$1,840,723	$1,873,526	$1,767,751	$1,579,390	$1,179,345	$778,164	$552,061	$17,375,315
12	Monthly Average	(11) / 12	$104,055	$128,247	$135,700	$136,667	$145,694	$153,394	$156,127	$147,313	$131,616	$98,279	$64,847	$46,005	$1,447,943
13	**LNG Inventory Balance**		$3,329,570	$4,287,751	$4,458,514	$4,335,479	$4,269,921	$4,218,563	$4,463,453	$4,390,342	$4,192,135	$1,815,018	$1,309,612	$905,495	
14	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
15	Return on Working Capital Requirement	(13) * (14)	$251,050	$323,296	$336,172	$326,895	$321,952	$318,080	$336,544	$331,032	$316,087	$136,852	$98,745	$68,274	$3,164,979
16	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
17	Interest Charges Financed	(13) * (16)	$95,226	$122,630	$127,514	$123,995	$122,120	$120,651	$127,655	$125,564	$119,895	$51,910	$37,455	$25,897	$1,200,509
18	Taxable Income	(15) - (17)	$155,824	$200,667	$208,658	$202,900	$199,832	$197,429	$208,890	$205,468	$196,192	$84,943	$61,290	$42,377	
19	1 - Combined Tax Rate	Dkt 4323	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
20	Return and Tax Requirement	(18) / (19)	$239,729	$308,718	$321,013	$312,154	$307,434	$303,737	$321,369	$316,105	$301,834	$130,681	$94,292	$65,196	$3,022,261
21	Working Capital Requirement	(17) + (20)	$334,955	$431,348	$448,527	$436,149	$429,554	$424,387	$449,023	$441,668	$421,729	$182,591	$131,747	$91,093	$4,222,771
22	Monthly Average	(21) / 12	$27,913	$35,946	$37,377	$36,346	$35,796	$35,366	$37,419	$36,806	$35,144	$15,216	$10,979	$7,591	$351,898
23	TOTAL GCR Inventory Financing Costs	(12) + (22)	**$131,968**	**$164,192**	**$173,077**	**$173,012**	**$181,490**	**$188,759**	**$193,546**	**$184,118**	**$166,760**	**$113,495**	**$75,826**	**$53,596**	**$1,799,840**

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment AEL-2
Redacted
Page 8 of 8

REDACTED

Actual Dth Usage for Filing

THROUGHPUT (Dth)

Line No.	Rate Class	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr-Mar
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1	**SALES**													
2	Residential Non-Heating	85,531	54,040	36,130	28,862	27,102	27,610	30,904	52,939	103,262	141,802	141,832	138,940	**868,953**
3	Residential Non-Heating Low Income	2,925	1,352	914	865	851	903	1,088	2,401	5,198	6,878	6,529	6,217	**36,121**
4	Residential Heating	1,994,126	1,004,359	517,766	368,525	351,754	355,843	413,994	969,814	2,219,000	3,163,797	3,145,750	3,050,687	**17,555,414**
5	Residential Heating Low Income	188,891	94,414	52,160	41,890	40,617	40,489	45,535	99,566	219,809	302,587	289,373	283,752	**1,699,083**
6	Small C&I	277,138	127,734	48,653	40,235	44,141	35,169	48,369	113,987	320,038	510,678	515,236	489,445	**2,570,823**
7	Medium C&I	320,301	185,551	115,786	87,354	90,782	89,762	102,141	183,797	405,782	549,634	561,182	553,032	**3,245,103**
8	Large LLF	77,249	42,508	16,520	9,284	9,642	12,900	18,230	37,111	88,624	131,497	126,710	131,847	**702,121**
9	Large HLF	30,093	19,316	19,196	15,776	18,763	19,130	23,172	22,769	21,799	31,263	47,438	19,833	**288,547**
10	Extra Large LLF	48,040	(71,177)	5,725	3,370	445	17,585	10,449	5,570	14,383	19,657	19,114	17,359	**90,521**
11	Extra Large HLF	23,961	18,645	(21,333)	89,354	(27,834)	53,770	13,441	31,828	23,596	42,770	36,078	53,886	**338,161**
12	**Total Sales**	3,048,255	1,476,740	791,517	685,514	556,263	653,161	707,323	1,519,782	3,421,490	4,900,562	4,889,241	4,744,998	**27,394,846**
13	**TSS**													
14	Small	91	50	0	2	4	0	0	29	66	131	188	251	**812**
15	Medium	6,241	4,008	322	356	833	255	1,825	3,756	9,638	14,531	16,516	8,550	**66,830**
16	Large LLF	5,472	1,367	(1,344)	222	131	133	502	2,640	8,519	10,503	11,701	10,385	**50,231**
17	Large HLF	2	0	(5)	0	0	411	779	531	523	1,251	2,402	6,514	**12,405**
18	Extra Large LLF	0	0	0	0	0	0	0	0	0	0	0	0	**0**
19	Extra Large HLF	0	3,694	0	0	0	0	0	0	0	4,641	3,542	2,876	**14,753**
20	**Total TSS**	11,806	9,119	(1,027)	580	967	799	3,105	6,955	18,746	31,056	34,349	28,576	**145,031**
21	**Sales & TSS THROUGHPUT**													
22	Residential Non-Heating	85,531	54,040	36,130	28,862	27,102	27,610	30,904	52,939	103,262	141,802	141,832	138,940	**868,953**
23	Residential Non-Heating Low Income	2,925	1,352	914	865	851	903	1,088	2,401	5,198	6,878	6,529	6,217	**36,121**
24	Residential Heating	1,994,126	1,004,359	517,766	368,525	351,754	355,843	413,994	969,814	2,219,000	3,163,797	3,145,750	3,050,687	**17,555,414**
25	Residential Heating Low Income	188,891	94,414	52,160	41,890	40,617	40,489	45,535	99,566	219,809	302,587	289,373	283,752	**1,699,083**
26	Small C&I	277,229	127,784	48,653	40,237	44,145	35,170	48,369	114,016	320,104	510,809	515,424	489,696	**2,571,635**
27	Medium C&I	326,542	189,559	116,108	87,710	91,614	90,017	103,966	187,552	415,420	564,165	577,698	561,582	**3,311,932**
28	Large LLF	82,721	43,875	15,176	9,506	9,773	13,033	18,731	39,751	97,143	142,000	138,411	142,232	**752,352**
29	Large HLF	30,096	19,316	19,190	15,776	18,763	19,540	23,951	23,300	22,322	32,513	49,839	26,347	**300,952**
30	Extra Large LLF	48,040	(71,177)	5,725	3,370	445	17,585	10,449	5,570	14,383	19,657	19,114	17,359	**90,521**
31	Extra Large HLF	23,961	22,339	(21,333)	89,354	(27,834)	53,770	13,441	31,828	23,596	47,411	39,620	56,762	**352,915**
32	**Total Sales & TSS Throughput**	3,060,061	1,485,859	790,490	686,094	557,230	653,960	710,428	1,526,737	3,440,236	4,931,618	4,923,590	4,773,574	**27,539,876**
33	**FT-1 TRANSPORTATION**													
34	FT-1 Medium	81,908	25,556	14,919	19,597	24,794	24,983	38,162	49,943	104,331	126,675	131,970	92,489	**735,327**
35	FT-1 Large LLF	133,147	24,438	(4,613)	(2,859)	13,591	16,645	36,578	85,095	188,438	212,579	240,126	157,623	**1,100,787**
36	FT-1 Large HLF	52,192	26,043	27,488	30,151	25,405	34,517	34,422	47,677	41,252	26,891	109,662	47,360	**503,060**
37	FT-1 Extra Large LLF	248,564	5,018	(6,139)	(14,096)	11,822	20,588	27,893	95,094	215,119	210,399	218,360	151,744	**1,184,365**
38	FT-1 Extra Large HLF	522,534	317,057	292,474	379,816	414,163	335,695	340,931	392,319	496,401	544,293	582,954	428,840	**5,047,478**
39	Default	6,429	1,890	(1,714)	1,457	1,242	946	1,265	2,475	7,881	7,468	49,428	3,273	**82,040**
40	**Total FT-1 Transportation**	1,044,775	400,003	322,415	414,066	491,018	433,373	479,250	672,602	1,053,422	1,128,305	1,332,500	881,329	**8,653,056**
41	**FT-2 TRANSPORTATION**													
42	FT-2 Small	1,507	872	517	421	433	481	725	1,579	4,164	6,702	6,537	6,308	**30,247**
43	FT-2 Medium	180,314	110,103	56,086	51,068	46,472	46,807	53,925	101,590	195,939	287,304	276,280	291,279	**1,697,167**
44	FT-2 Large LLF	150,828	53,155	28,768	18,962	15,460	15,625	23,065	72,041	142,564	201,727	214,027	204,243	**1,140,465**
45	FT-2 Large HLF	30,823	23,820	21,823	25,277	19,716	30,769	26,586	31,020	38,320	50,395	52,467	46,854	**397,870**
46	FT-2 Extra Large LLF	4,176	1,520	189	156	173	1,352	2,564	5,451	8,637	12,131	13,240	12,647	**62,234**
47	FT-2 Extra Large HLF	15,249	11,967	10,554	8,133	11,066	11,362	10,989	12,051	15,099	23,197	21,124	22,028	**172,820**
48	**Total FT-2 Transportation**	382,897	201,436	117,937	104,016	93,321	106,396	117,855	223,732	404,723	581,456	583,675	583,359	**3,500,802**
49	**Total THROUGHPUT**													
50	Residential Non-Heating	85,531	54,040	36,130	28,862	27,102	27,610	30,904	52,939	103,262	141,802	141,832	138,940	**868,953**
51	Residential Non-Heating Low Income	2,925	1,352	914	865	851	903	1,088	2,401	5,198	6,878	6,529	6,217	**36,121**
52	Residential Heating	1,994,126	1,004,359	517,766	368,525	351,754	355,843	413,994	969,814	2,219,000	3,163,797	3,145,750	3,050,687	**17,555,414**
53	Residential Heating Low Income	188,891	94,414	52,160	41,890	40,617	40,489	45,535	99,566	219,809	302,587	289,373	283,752	**1,699,083**
54	Small C&I	278,735	128,656	49,170	40,658	44,579	35,651	49,094	115,595	324,268	517,511	521,961	496,004	**2,601,882**
55	Medium C&I	588,764	325,217	187,113	158,376	162,881	161,807	196,053	339,084	715,690	978,145	985,947	945,350	**5,744,426**
56	Large LLF	366,696	121,469	39,332	25,608	38,824	45,303	78,375	196,886	428,144	556,305	592,564	504,099	**2,993,604**
57	Large HLF	113,111	69,178	68,502	71,204	63,883	84,827	84,960	101,997	101,893	109,799	211,968	120,561	**1,201,882**
58	Extra Large LLF	300,780	(64,639)	(226)	(10,571)	12,441	39,525	40,905	106,115	238,139	242,187	250,714	181,749	**1,337,119**
59	Extra Large HLF	561,744	351,363	281,695	477,302	397,396	400,826	365,362	436,198	535,096	614,901	643,699	507,630	**5,573,212**
60	Default	6,429	1,890	(1,714)	1,457	1,242	946	1,265	2,475	7,881	7,468	49,428	3,273	**82,040**
61	**Total Throughput**	4,487,733	2,087,298	1,230,842	1,204,176	1,141,569	1,193,729	1,307,533	2,423,071	4,898,381	6,641,379	6,839,764	6,238,261	**39,693,734**

Attachment AEL-3

Attachment AEL-3
Projected Gas Cost Balances

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4520
Attachment AEL-3
Page 1 of 1

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Projected Gas Cost Deferred Balances

Line No.	Description	Reference	Nov-14 forecast	Dec-14 forecast	Jan-15 forecast	Feb-15 forecast	Mar-15 forecast	Apr-15 forecast	May-15 forecast	Jun-15 forecast	Jul-15 forecast	Aug-15 forecast	Sep-15 forecast	Oct-15 forecast	Nov - Oct
(1)	# of Days in Month		30	31	31	28	31	30	31	30	31	31	30	31	365
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
(2)	I. Fixed Cost Deferred														
(3)	Beginning Balance	Nov-13: AEL-1 pg 6, (l)17; Dec 13 - Oct 14: Previous month line (16)	($7,060,474)	($6,220,508)	($6,801,384)	($8,897,141)	($11,165,198)	($13,050,118)	($13,075,563)	($11,875,041)	($9,743,762)	($7,309,831)	($4,862,037)	($2,429,746)	($7,060,474)
(4)	Fixed Costs (net of cap rel)	AEL-1 pg 4, Line (59)	$3,211,248	$3,449,789	$3,448,450	$3,446,826	$3,315,450	$3,925,971	$3,926,512	$3,925,971	$3,926,512	$3,926,512	$3,925,971	$3,926,512	$44,355,723
(5)	NGPMP Credits	EDA-1	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($6,900,000)
(6)	Working Capital	AEL-1 pg 8, Line (16)	$18,302	$19,717	$19,709	$19,699	$18,920	$22,540	$22,543	$22,540	$22,543	$22,543	$22,540	$22,543	$254,137
(7)	LNG Demand to DAC	Dkt 4339	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(8)	Supply Related LNG O & M	Dkt 4323	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
(9)	Total Supply Fixed Costs	sum[(4):(8)]	$2,578,449	$2,818,405	$2,817,058	$2,815,425	$2,683,269	$3,297,410	$3,297,954	$3,297,410	$3,297,954	$3,297,954	$3,297,410	$3,297,954	$36,796,651
(10)	Fixed - Revenue	AEL-1 pg 7, Line (10)	($1,651,589)	($3,392,372)	($4,904,486)	($5,073,867)	($4,555,342)	($3,309,441)	($2,084,195)	($1,155,031)	($854,975)	($843,703)	($861,374)	($967,598)	($29,653,973)
(11)	Prelim. Ending Balance	(3) + (9) + (10)	($6,133,613)	($6,794,476)	($8,888,812)	($11,155,584)	($13,037,270)	($13,062,149)	($11,861,804)	($9,732,662)	($7,300,783)	($4,855,580)	($2,426,002)	($99,390)	
(12)	Month's Average Balance	[(3) + (11)] / 2	($6,597,043)	($6,507,492)	($7,845,098)	($10,026,362)	($12,101,234)	($13,056,133)	($12,468,683)	($10,803,852)	($8,522,273)	($6,082,705)	($3,644,020)	($1,264,568)	
(13)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(14)	Interest Applied	[(12) * (13)] / 365 * (1)	($6,778)	($6,909)	($8,329)	($9,614)	($12,847)	($13,414)	($13,237)	($11,100)	($9,048)	($6,458)	($3,744)	($1,343)	($102,819)
(15)	Marketer Reconcilation	AEL-7, Line (50)	($80,117)												($80,117)
(16)	Fixed Ending Balance	(11) + (14) + (15)	($6,220,508)	($6,801,384)	($8,897,141)	($11,165,198)	($13,050,118)	($13,075,563)	($11,875,041)	($9,743,762)	($7,309,831)	($4,862,037)	($2,429,746)	($100,732)	($100,732)
(17)	II. Variable Cost Deferred														
(18)	Beginning Balance	Nov-13: AEL-1 pg 6, (l)34; Dec 13 - Oct 14: Previous month line (32)	$36,091,594	$36,294,940	$37,662,868	$37,579,593	$33,684,631	$25,216,702	$15,207,071	$8,732,717	$6,153,194	$4,578,663	$2,973,472	$1,134,803	$36,091,594
(19)	Variable Costs	AEL-1 pg 5, Line (90)	$7,883,231	$18,130,078	$24,626,234	$21,779,140	$14,542,444	$6,534,003	$3,638,315	$2,665,126	$2,084,637	$1,980,297	$1,826,892	$3,294,789	$108,985,186
(20)	Supply Related LNG to DAC	Dkt 4339	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(21)	Supply Related LNG O & M	Dkt 4323	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$572,694
(22)	Inventory Financing - LNG	AEL-1 pg 10, Line (22)	$41,631	$40,325	$16,487	$8,509	$7,466	$7,279	$11,626	$14,179	$19,569	$24,540	$28,967	$33,931	$254,509
(23)	Inventory Financing - UG	AEL-1 pg 10, Line (12)	$145,315	$117,804	$87,603	$59,699	$34,423	$46,210	$57,322	$69,450	$79,989	$91,180	$102,859	$113,632	$1,005,487
(24)	Working Capital	AEL-1 pg 8, Line (32)	$46,736	$107,484	$145,997	$129,118	$86,215	$38,737	$21,570	$15,800	$12,359	$11,740	$10,831	$19,533	$646,120
(25)	Total Variable Costs	sum[(19):(24)]	$8,164,637	$18,443,416	$24,924,046	$22,024,191	$14,718,273	$6,673,953	$3,776,558	$2,812,280	$2,244,278	$2,155,482	$2,017,273	$3,509,609	$111,463,996
(26)	Variable - Revenue	AEL-1 pg 7, Line (15)	($7,998,456)	($17,114,726)	($25,047,240)	($25,953,304)	($23,217,452)	($16,704,339)	($10,263,612)	($5,399,446)	($3,824,503)	($3,764,680)	($3,858,051)	($4,409,287)	($147,555,096)
(27)	Prelim. Ending Balance	(18) + (25) + (26)	$36,257,775	$37,623,630	$37,539,674	$33,650,480	$25,185,453	$15,186,316	$8,720,016	$6,145,551	$4,572,969	$2,969,465	$1,132,694	$235,126	
(28)	Month's Average Balance	[(18) + (27)] / 2	$36,174,684	$36,959,285	$37,601,271	$35,615,036	$29,435,042	$20,201,509	$11,963,543	$7,439,134	$5,363,082	$3,774,064	$2,053,083	$684,965	
(29)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(30)	Interest Applied	[(28) * (29)] / 365 * (1)	$37,166	$39,238	$39,919	$34,151	$31,250	$20,755	$12,701	$7,643	$5,694	$4,007	$2,109	$727	$235,359
(31)	Gas Procurement Incentive/(penalty)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(32)	Variable Ending Balance	(27) + (30) + (31)	$36,294,940	$37,662,868	$37,579,593	$33,684,631	$25,216,702	$15,207,071	$8,732,717	$6,153,194	$4,578,663	$2,973,472	$1,134,803	$235,853	$235,853
(33)	**GCR Deferred Summary**														
(34)	Beginning Balance	(3) + (18)	$29,031,120	$30,074,432	$30,861,484	$28,682,452	$22,519,433	$12,166,584	$2,131,508	($3,142,324)	($3,590,569)	($2,731,168)	($1,888,565)	($1,294,942)	$29,031,120
(35)	Gas Costs	sum[(4),(7),(8),(15),(19):(21)]	$10,985,985	$21,551,491	$28,046,308	$25,197,590	$17,829,518	$10,431,597	$7,536,451	$6,562,721	$5,982,773	$5,878,433	$5,724,486	$7,192,925	$152,920,277
(36)	Inventory Finance	(22) + (23)	$186,945	$158,129	$104,090	$68,208	$41,890	$53,489	$68,948	$83,629	$99,558	$115,720	$131,826	$147,563	$1,259,996
(37)	Working Capital	(6) + (24)	$65,038	$127,201	$165,706	$148,817	$105,135	$61,277	$44,113	$38,340	$34,902	$34,283	$33,370	$42,076	$900,257
(38)	NGPMP Credits	(5)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($6,900,000)
(39)	Total Costs	sum[(35):(38)]	$10,662,969	$21,261,821	$27,741,104	$24,839,615	$17,401,543	$9,971,362	$7,074,512	$6,109,689	$5,542,233	$5,453,436	$5,314,683	$6,807,564	$148,180,530
(40)	Revenue	(10) + (26)	($9,650,045)	($20,507,098)	($29,951,726)	($31,027,171)	($27,772,794)	($20,013,780)	($12,347,807)	($6,554,477)	($4,679,478)	($4,608,383)	($4,719,425)	($5,376,885)	($177,209,069)
(41)	Prelim. Ending Balance	(34) + (39) + (40)	$30,044,044	$30,829,155	$28,650,862	$22,494,896	$12,148,182	$2,124,167	($3,141,788)	($3,587,112)	($2,727,814)	($1,886,114)	($1,293,308)	$135,736	$2,581
(42)	Month's Average Balance	[(34) + (41)] / 2	$29,537,582	$30,451,793	$29,756,173	$25,588,674	$17,333,808	$7,145,376	($505,140)	($3,364,718)	($3,159,191)	($2,308,641)	($1,590,937)	($579,603)	
(43)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(44)	Interest Applied	(14) + (30)	$30,388	$32,329	$31,590	$24,537	$18,402	$7,341	($536)	($3,457)	($3,354)	($2,451)	($1,635)	($615)	$132,540
(45)	Gas Purchase Plan Incentives/(Penalties)	(31)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
(46)	**Ending Bal. W/ Interest**	(41) + (44) + (45)	$30,074,432	$30,861,484	$28,682,452	$22,519,433	$12,166,584	$2,131,508	($3,142,324)	($3,590,569)	($2,731,168)	($1,888,565)	($1,294,942)	**$135,121**	$135,121

Attachment AEL-4

Attachment AEL-4
Bill Impact Analysis

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Bill Impact Analysis with Various Levels of Consumption:

Line No.	**Residential Heating:**											
							Difference due to:					
(1)		Annual	Proposed	Current								
(2)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(3)								Base DAC	ISR			
(4)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(5)		550	$848.80	$919.64	($70.85)	-7.7%	($31.34)	($37.38)	$0.00	$0.00	$0.00	($2.13)
(6)		608	$919.95	$998.08	($78.12)	-7.8%	($34.45)	($41.33)	$0.00	$0.00	$0.00	($2.34)
(7)		667	$992.18	$1,078.14	($85.96)	-8.0%	($38.06)	($45.32)	$0.00	$0.00	$0.00	($2.58)
(8)		727	$1,064.58	$1,157.95	($93.37)	-8.1%	($41.14)	($49.43)	$0.00	$0.00	$0.00	($2.80)
(9)		788	$1,135.20	$1,236.49	($101.30)	-8.2%	($44.71)	($53.55)	$0.00	$0.00	$0.00	($3.04)
(10)	**Average Customer**	**846**	**$1,200.96**	**$1,309.75**	**($108.79)**	**-8.3%**	($48.02)	($57.51)	$0.00	$0.00	$0.00	($3.26)
(11)		904	$1,266.86	$1,382.76	($115.90)	-8.4%	($50.95)	($61.47)	$0.00	$0.00	$0.00	($3.48)
(12)		966	$1,337.16	$1,461.34	($124.19)	-8.5%	($54.77)	($65.69)	$0.00	$0.00	$0.00	($3.73)
(13)		1,023	$1,401.56	$1,533.22	($131.66)	-8.6%	($58.15)	($69.56)	$0.00	$0.00	$0.00	($3.95)
(14)		1,081	$1,466.38	$1,605.06	($138.67)	-8.6%	($61.01)	($73.50)	$0.00	$0.00	$0.00	($4.16)
(15)		1,145	$1,536.87	$1,684.44	($147.57)	-8.8%	($65.29)	($77.85)	$0.00	$0.00	$0.00	($4.43)

	Residential Heating Low Income:											
							Difference due to:					
(16)		Annual	Proposed	Current								
(17)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(18)								Base DAC	ISR			
(19)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(20)		550	$806.31	$877.15	($70.85)	-8.1%	($31.34)	($37.38)	$0.00	$0.00	$0.00	($2.13)
(21)		608	$874.72	$952.84	($78.12)	-8.2%	($34.45)	($41.33)	$0.00	$0.00	$0.00	($2.34)
(22)		667	$944.17	$1,030.13	($85.96)	-8.3%	($38.06)	($45.32)	$0.00	$0.00	$0.00	($2.58)
(23)		727	$1,013.86	$1,107.23	($93.37)	-8.4%	($41.14)	($49.43)	$0.00	$0.00	$0.00	($2.80)
(24)		788	$1,082.01	$1,183.31	($101.30)	-8.6%	($44.71)	($53.55)	$0.00	$0.00	$0.00	($3.04)
(25)	**Average Customer**	**846**	**$1,145.56**	**$1,254.35**	**($108.79)**	**-8.7%**	($48.02)	($57.51)	$0.00	$0.00	$0.00	($3.26)
(26)		904	$1,209.26	$1,325.15	($115.90)	-8.7%	($50.95)	($61.47)	$0.00	$0.00	$0.00	($3.48)
(27)		966	$1,277.20	$1,401.39	($124.19)	-8.9%	($54.77)	($65.69)	$0.00	$0.00	$0.00	($3.73)
(28)		1,023	$1,339.46	$1,471.12	($131.66)	-8.9%	($58.15)	($69.56)	$0.00	$0.00	$0.00	($3.95)
(29)		1,081	$1,402.18	$1,540.85	($138.67)	-9.0%	($61.01)	($73.50)	$0.00	$0.00	$0.00	($4.16)
(30)		1,145	$1,470.44	$1,618.00	($147.57)	-9.1%	($65.29)	($77.85)	$0.00	$0.00	$0.00	($4.43)

Residential Non-Heating:

							Difference due to:					
(31)		Annual	Proposed	Current								
(32)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(33)								Base DAC	ISR			
(34)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(35)		140	$337.99	$354.99	($17.00)	-4.8%	($11.29)	($5.20)	$0.00	$0.00	$0.00	($0.51)
(36)		155	$356.06	$375.05	($18.99)	-5.1%	($12.67)	($5.75)	$0.00	$0.00	$0.00	($0.57)
(37)		171	$375.28	$396.28	($21.00)	-5.3%	($14.05)	($6.32)	$0.00	$0.00	$0.00	($0.63)
(38)		184	$390.87	$413.34	($22.47)	-5.4%	($14.94)	($6.86)	$0.00	$0.00	$0.00	($0.67)
(39)		198	$407.68	$431.87	($24.19)	-5.6%	($16.10)	($7.36)	$0.00	$0.00	$0.00	($0.73)
(40)	**Average Customer**	**214**	**$426.53**	**$452.82**	**($26.29)**	**-5.8%**	($17.57)	($7.93)	$0.00	$0.00	$0.00	($0.79)
(41)		228	$443.73	$471.62	($27.89)	-5.9%	($18.60)	($8.45)	$0.00	$0.00	$0.00	($0.84)
(42)		244	$462.98	$492.88	($29.91)	-6.1%	($19.97)	($9.04)	$0.00	$0.00	$0.00	($0.90)
(43)		258	$479.78	$511.42	($31.64)	-6.2%	($21.13)	($9.56)	$0.00	$0.00	$0.00	($0.95)
(44)		275	$500.18	$534.11	($33.93)	-6.4%	($22.71)	($10.20)	$0.00	$0.00	$0.00	($1.02)
(45)		288	$515.85	$551.21	($35.36)	-6.4%	($23.63)	($10.67)	$0.00	$0.00	$0.00	($1.06)

Residential Non-Heating Low Income:

							Difference due to:					
(46)		Annual	Proposed	Current								
(47)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(48)								Base DAC	ISR			
(49)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(50)		140	$315.58	$332.58	($17.00)	-5.1%	($11.29)	($5.20)	$0.00	$0.00	$0.00	($0.51)
(51)		155	$332.97	$351.96	($18.99)	-5.4%	($12.67)	($5.75)	$0.00	$0.00	$0.00	($0.57)
(52)		171	$351.46	$372.46	($21.00)	-5.6%	($14.05)	($6.32)	$0.00	$0.00	$0.00	($0.63)
(53)		184	$366.46	$388.93	($22.47)	-5.8%	($14.94)	($6.86)	$0.00	$0.00	$0.00	($0.67)
(54)		198	$382.64	$406.83	($24.19)	-5.9%	($16.10)	($7.36)	$0.00	$0.00	$0.00	($0.73)
(55)	**Average Customer**	**214**	**$400.78**	**$427.07**	**($26.29)**	**-6.2%**	($17.57)	($7.93)	$0.00	$0.00	$0.00	($0.79)
(56)		228	$417.33	$445.22	($27.89)	-6.3%	($18.60)	($8.45)	$0.00	$0.00	$0.00	($0.84)
(57)		244	$435.85	$465.76	($29.91)	-6.4%	($19.97)	($9.04)	$0.00	$0.00	$0.00	($0.90)
(58)		258	$452.02	$483.66	($31.64)	-6.5%	($21.13)	($9.56)	$0.00	$0.00	$0.00	($0.95)
(59)		275	$471.65	$505.58	($33.93)	-6.7%	($22.71)	($10.20)	$0.00	$0.00	$0.00	($1.02)
(60)		288	$486.74	$522.10	($35.36)	-6.8%	($23.63)	($10.67)	$0.00	$0.00	$0.00	($1.06)

C & I Small:

							Difference due to:					
(61)		Annual	Proposed	Current								
(62)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(63)								Base DAC	ISR			
(64)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(65)		880	$1,384.27	$1,493.48	($109.21)	-7.3%	($44.49)	($61.44)	$0.00	$0.00	$0.00	($3.28)
(66)		973	$1,487.11	$1,607.80	($120.69)	-7.5%	($49.16)	($67.91)	$0.00	$0.00	$0.00	($3.62)
(67)		1,067	$1,590.18	$1,722.22	($132.04)	-7.7%	($53.58)	($74.50)	$0.00	$0.00	$0.00	($3.96)
(68)		1,162	$1,691.94	$1,835.84	($143.91)	-7.8%	($58.48)	($81.11)	$0.00	$0.00	$0.00	($4.32)
(69)		1,258	$1,789.08	$1,945.21	($156.12)	-8.0%	($63.61)	($87.83)	$0.00	$0.00	$0.00	($4.68)
(70)	**Average Customer**	**1,352**	**$1,883.11**	**$2,050.70**	**($167.59)**	**-8.2%**	($68.19)	($94.37)	$0.00	$0.00	$0.00	($5.03)
(71)		1,446	$1,977.91	$2,157.11	($179.21)	-8.3%	($72.88)	($100.95)	$0.00	$0.00	$0.00	($5.38)
(72)		1,542	$2,074.12	$2,265.23	($191.11)	-8.4%	($77.75)	($107.63)	$0.00	$0.00	$0.00	($5.73)
(73)		1,635	$2,167.34	$2,369.96	($202.62)	-8.5%	($82.43)	($114.11)	$0.00	$0.00	$0.00	($6.08)
(74)		1,730	$2,261.53	$2,475.78	($214.26)	-8.7%	($87.08)	($120.75)	$0.00	$0.00	$0.00	($6.43)
(75)		1,825	$2,355.73	$2,581.88	($226.15)	-8.8%	($91.98)	($127.39)	$0.00	$0.00	$0.00	($6.78)

C & I Medium:

							Difference due to:					
(76)		Annual	Proposed	Current								
(77)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(78)								Base DAC	ISR			
(79)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(80)		7,941	$9,008.06	$10,129.22	($1,121.16)	-11.1%	($535.61)	($551.92)	$0.00	$0.00	$0.00	($33.63)
(81)		8,796	$9,884.10	$11,125.73	($1,241.63)	-11.2%	($593.05)	($611.33)	$0.00	$0.00	$0.00	($37.25)
(82)		9,650	$10,758.66	$12,120.69	($1,362.03)	-11.2%	($650.51)	($670.66)	$0.00	$0.00	$0.00	($40.86)
(83)		10,505	$11,634.65	$13,117.48	($1,482.82)	-11.3%	($708.26)	($730.08)	$0.00	$0.00	$0.00	($44.48)
(84)		11,361	$12,511.05	$14,114.68	($1,603.63)	-11.4%	($765.93)	($789.59)	$0.00	$0.00	$0.00	($48.11)
(85)	**Average Customer**	**12,217**	**$13,387.73**	**$15,112.22**	**($1,724.49)**	**-11.4%**	($823.68)	($849.08)	$0.00	$0.00	$0.00	($51.73)
(86)		13,073	$14,264.46	$16,109.65	($1,845.19)	-11.5%	($881.27)	($908.56)	$0.00	$0.00	$0.00	($55.36)
(87)		13,928	$15,139.95	$17,106.15	($1,966.20)	-11.5%	($939.22)	($967.99)	$0.00	$0.00	$0.00	($58.99)
(88)		14,782	$16,015.05	$18,101.70	($2,086.65)	-11.5%	($996.71)	($1,027.34)	$0.00	$0.00	$0.00	($62.60)
(89)		15,637	$16,890.56	$19,097.92	($2,207.36)	-11.6%	($1,054.38)	($1,086.76)	$0.00	$0.00	$0.00	($66.22)
(90)		16,492	$17,766.57	$20,094.45	($2,327.89)	-11.6%	($1,111.86)	($1,146.19)	$0.00	$0.00	$0.00	($69.84)

C & I LLF Large:

							Difference due to:					
(91)		Annual	Proposed	Current								
(92)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(93)								Base DAC	ISR			
(94)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(95)		41,066	$45,315.46	$47,623.47	($2,308.01)	-4.8%	($2,058.07)	($180.70)	$0.00	$0.00	$0.00	($69.24)
(96)		45,488	$49,960.93	$52,517.11	($2,556.18)	-4.9%	($2,279.32)	($200.17)	$0.00	$0.00	$0.00	($76.69)
(97)		49,910	$54,606.57	$57,411.37	($2,804.80)	-4.9%	($2,501.07)	($219.59)	$0.00	$0.00	$0.00	($84.14)
(98)		54,334	$59,253.85	$62,307.09	($3,053.25)	-4.9%	($2,722.59)	($239.06)	$0.00	$0.00	$0.00	($91.60)
(99)		58,757	$63,900.32	$67,202.50	($3,302.19)	-4.9%	($2,944.60)	($258.52)	$0.00	$0.00	$0.00	($99.07)
(100)	**Average Customer**	**63,179**	**$68,545.94**	**$72,096.34**	**($3,550.40)**	**-4.9%**	($3,165.89)	($278.00)	$0.00	$0.00	$0.00	($106.51)
(101)		67,600	$73,190.38	$76,989.18	($3,798.80)	-4.9%	($3,387.39)	($297.45)	$0.00	$0.00	$0.00	($113.96)
(102)		72,023	$77,836.83	$81,884.28	($4,047.45)	-4.9%	($3,609.15)	($316.88)	$0.00	$0.00	$0.00	($121.42)
(103)		76,447	$82,484.80	$86,780.92	($4,296.12)	-5.0%	($3,830.88)	($336.36)	$0.00	$0.00	$0.00	($128.88)
(104)		80,870	$87,131.22	$91,675.78	($4,544.57)	-5.0%	($4,052.39)	($355.84)	$0.00	$0.00	$0.00	($136.34)
(105)		85,292	$91,776.75	$96,569.74	($4,792.99)	-5.0%	($4,273.92)	($375.28)	$0.00	$0.00	$0.00	($143.79)

C & I HLF Large:

							Difference due to:					
(106)		Annual	Proposed	Current								
(107)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(108)								Base DAC	ISR			
(109)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(110)		50,411	$49,800.52	$55,183.17	($5,382.65)	-9.8%	($4,883.41)	($337.76)	$0.00	$0.00	$0.00	($161.48)
(111)		55,841	$54,930.58	$60,893.18	($5,962.60)	-9.8%	($5,409.59)	($374.13)	$0.00	$0.00	$0.00	($178.88)
(112)		61,273	$60,062.38	$66,604.92	($6,542.54)	-9.8%	($5,935.74)	($410.52)	$0.00	$0.00	$0.00	($196.28)
(113)		66,699	$65,189.01	$72,310.83	($7,121.82)	-9.8%	($6,461.27)	($446.90)	$0.00	$0.00	$0.00	($213.65)
(114)		72,129	$70,319.05	$78,020.86	($7,701.81)	-9.9%	($6,987.48)	($483.28)	$0.00	$0.00	$0.00	($231.05)
(115)	**Average Customer**	**77,558**	**$75,448.19**	**$83,729.76**	**($8,281.57)**	**-9.9%**	($7,513.48)	($519.64)	$0.00	$0.00	$0.00	($248.45)
(116)		82,989	$80,578.38	$89,439.84	($8,861.46)	-9.9%	($8,039.60)	($556.02)	$0.00	$0.00	$0.00	($265.84)
(117)		88,416	$85,705.86	$95,146.85	($9,440.99)	-9.9%	($8,565.38)	($592.38)	$0.00	$0.00	$0.00	($283.23)
(118)		93,847	$90,836.77	$100,857.71	($10,020.94)	-9.9%	($9,091.53)	($628.78)	$0.00	$0.00	$0.00	($300.63)
(119)		99,275	$95,965.10	$106,565.82	($10,600.72)	-9.9%	($9,617.56)	($665.14)	$0.00	$0.00	$0.00	($318.02)
(120)		104,705	$101,095.20	$112,275.62	($11,180.42)	-10.0%	($10,143.47)	($701.54)	$0.00	$0.00	$0.00	($335.41)

C & I LLF Extra-Large:

							Difference due to:					
(121)		Annual	Proposed	Current								
(122)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(123)								Base DAC	ISR			
(124)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(125)		174,357	$160,691.89	$170,930.36	($10,238.47)	-6.0%	($9,094.42)	($836.90)	$0.00	$0.00	$0.00	($307.15)
(126)		193,136	$177,431.48	$188,772.87	($11,341.38)	-6.0%	($10,074.09)	($927.05)	$0.00	$0.00	$0.00	($340.24)
(127)		211,912	$194,168.70	$206,612.72	($12,444.02)	-6.0%	($11,053.52)	($1,017.18)	$0.00	$0.00	$0.00	($373.32)
(128)		230,688	$210,906.48	$224,452.66	($13,546.19)	-6.0%	($12,032.50)	($1,107.30)	$0.00	$0.00	$0.00	($406.39)
(129)		249,466	$227,645.22	$242,294.57	($14,649.35)	-6.0%	($13,012.45)	($1,197.42)	$0.00	$0.00	$0.00	($439.48)
(130)	**Average Customer**	**268,243**	**$244,383.08**	**$260,134.86**	**($15,751.78)**	**-6.1%**	($13,991.67)	($1,287.56)	$0.00	$0.00	$0.00	($472.55)
(131)		287,018	$261,119.69	$277,974.12	($16,854.43)	-6.1%	($14,971.11)	($1,377.69)	$0.00	$0.00	$0.00	($505.63)
(132)		305,796	$277,859.06	$295,815.89	($17,956.84)	-6.1%	($15,950.32)	($1,467.81)	$0.00	$0.00	$0.00	($538.71)
(133)		324,573	$294,597.09	$313,656.54	($19,059.45)	-6.1%	($16,929.74)	($1,557.93)	$0.00	$0.00	$0.00	($571.78)
(134)		343,350	$311,335.05	$331,497.47	($20,162.42)	-6.1%	($17,909.47)	($1,648.08)	$0.00	$0.00	$0.00	($604.87)
(135)		362,127	$328,073.04	$349,337.86	($21,264.81)	-6.1%	($18,888.67)	($1,738.20)	$0.00	$0.00	$0.00	($637.94)

C & I HLF Extra-Large:

							Difference due to:					
(136)		Annual	Proposed	Current								
(137)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE	LIHEAP	GET
(138)								Base DAC	ISR			
(139)			-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
(140)		447,421	$385,267.43	$437,423.68	($52,156.25)	-11.9%	($48,130.74)	($2,460.82)	$0.00	$0.00	$0.00	($1,564.69)
(141)		495,605	$426,190.47	$483,963.70	($57,773.23)	-11.9%	($53,314.21)	($2,725.82)	$0.00	$0.00	$0.00	($1,733.20)
(142)		543,789	$467,114.22	$530,504.21	($63,389.99)	-11.9%	($58,497.45)	($2,990.84)	$0.00	$0.00	$0.00	($1,901.70)
(143)		591,972	$508,036.50	$577,043.21	($69,006.71)	-12.0%	($63,680.69)	($3,255.82)	$0.00	$0.00	$0.00	($2,070.20)
(144)		640,155	$548,958.67	$623,582.15	($74,623.48)	-12.0%	($68,863.94)	($3,520.84)	$0.00	$0.00	$0.00	($2,238.70)
(145)	**Average Customer**	**688,340**	**$589,882.88**	**$670,123.37**	**($80,240.49)**	**-12.0%**	($74,047.39)	($3,785.89)	$0.00	$0.00	$0.00	($2,407.21)
(146)		736,523	$630,805.48	$716,662.74	($85,857.26)	-12.0%	($79,230.66)	($4,050.88)	$0.00	$0.00	$0.00	($2,575.72)
(147)		784,708	$671,729.25	$763,203.48	($91,474.24)	-12.0%	($84,414.11)	($4,315.90)	$0.00	$0.00	$0.00	($2,744.23)
(148)		832,891	$712,652.25	$809,743.24	($97,090.99)	-12.0%	($89,597.35)	($4,580.91)	$0.00	$0.00	$0.00	($2,912.73)
(149)		881,074	$753,574.45	$856,282.21	($102,707.76)	-12.0%	($94,780.60)	($4,845.93)	$0.00	$0.00	$0.00	($3,081.23)
(150)		929,259	$794,499.03	$902,823.76	($108,324.73)	-12.0%	($99,964.06)	($5,110.93)	$0.00	$0.00	$0.00	($3,249.74)

Attachment AEL-5

Attachment AEL-5
FT-2 Demand Rate

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Summary of Marketer Transportation Factors

Line No.	Item	Reference	Proposed	Billing Units
	(a)	(b)	(c)	(d)
(1)	**FT-2 Demand**	AEL-5 pg 2, Line (20)	**$8.7038**	Dth/Mth
(2)	**Weighted Average Upstream Pipeline Transportation Cost**	EDA - 4	**$0.4080**	Per Dth of capacity

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Calculation of FT- 2 Demand Rate (per Dth)

Line No.	Description	Source Reference	Source Line #	Amount	
	(a)	(b)	(c)	(d)	
(1)	Storage Fixed Costs	AEL-1 pg 4	Line (59)	$15,825,143	
	Less:				
(2)	LNG Demand to DAC	AEL-1 pg 2	Line (5)	($1,488,790)	
(3)	Credits			$0	
(4)	Refunds			$0	
(5)	Total Credits	sum [(2):(4)]		($1,488,790)	
	Plus:				
(6)	Supply Related LNG O&M Costs	Dkt 4323		$575,581	
(7)	Working Capital Requirement	AEL-1 pg 9	Line (47)	$84,993	
(8)	Total Additions	sum [(6):(7)]		$660,574	
(9)	Total Storage Fixed Costs	(1) + (5) + (8)		$14,996,928	
	Inventory Financing				
(10)	Underground	AEL-1 pg 10	Line (12)	$1,005,487	
(11)	LNG	AEL-1 pg 10	Line (22)	$254,509	
(12)	Total Storage Fixed Costs	(9) + (10) + (11)		$16,256,924	
(13)	LNG Storage MDQ (Dth)	AEL-1 pg 12	Line (14)	118,286	
(14)	AGT	EDA-4		31,637	
(15)	TENN	EDA-4		10,836	
(16)	Total Storage MDQ	sum [(13):(15)]		160,759	
(17)	Storage MDQ X 12 Months	(16) *12		1,929,108	MDCQ Dth
(18)	FT- 2 Demand Rate	(12) / (17)		$8.4271	per MDCQ Dth
(19)	Uncollectible %	Docket 4323		3.18%	
(20)	Total FT-2 Demand Rate adjusted for Uncollectibles	(18) / [(1 - (19)]		$8.7038	per MDCQ Dth

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Calculation of FT-2 Demand Costs

Line No.	Description	Source Reference	Source Line #	Amount	
	(a)	(b)	(c)	(d)	
(1)	FT- 2 Demand Rate	AEL-5 pg 2	Line (18)	$8.4271	per MDCQ Dth
(2)	MDQ-U	Mkter MDQ Forecast		3,744	
(3)	MDQ-P	Mkter MDQ Forecast		11,793	
(4)	Marketer MDQs	(2) + (3)		15,537	Dth/Mth
(5)	**FT-2 Storage Costs**	(1) x (4) x 12 Months		**$1,571,148**	

Attachment AEL-6

Attachment AEL-6
FT-2 Capacity Allocator Percentages

RI Gas Company
Capacity Assignment Table

			% of Peak Day Requirement				% of Total Capacity		
Line No.	Load (a)	Rate Class (b)	Pipeline (c)	Storage (d)	Peaking (e)	Total (f)	Pipeline (g)	Storage (h)	Peaking (i)
(1)	HLF	Res - Non-Heating	60.0%	10.0%	30.0%	100.0%	2.5%	2.3%	2.3%
(2)	HLF	Res - Non-Heating LI	60.0%	10.0%	30.0%	100.0%			
(3)	LLF	Res - Heating	50.0%	12.0%	38.0%	100.0%	56.4%	58.3%	58.3%
(4)	LLF	Res - Heating LI	50.0%	12.0%	38.0%	100.0%			
(5)	LLF	Small	50.0%	12.0%	38.0%	100.0%	8.4%	9.1%	9.1%
(6)	LLF	Med	50.0%	12.0%	38.0%	100.0%	9.6%	9.4%	9.4%
(7)	LLF	Large Low Load	50.0%	12.0%	38.0%	100.0%	2.2%	2.4%	2.4%
(8)	HLF	Large High Load	60.0%	10.0%	30.0%	100.0%	0.8%	0.6%	0.6%
(9)	LLF	XL Low Load	50.0%	12.0%	38.0%	100.0%	0.3%	0.2%	0.2%
(10)	HLF	XL High Load	60.0%	10.0%	30.0%	100.0%	0.6%	0.0%	0.0%

(11)	HLF	High Load Factor	60.0%	10.0%	30.0%	100.0%	10.4%	7.3%	7.3%
(12)	LLF	Low Load Factor	50.0%	12.0%	38.0%	100.0%	89.6%	92.7%	92.7%
(13)		Total	51.0%	12.0%	37.0%	100.0%	100.0%	100.0%	100.0%

Attachment AEL-7

Attachment AEL-7
Marketer Reconciliation

2012-13 & 2013-14 Annual Marketer Reconciliation

Line No.	Description (a)	# of days (b)	Reference (c)	Tetco ELA /Algonquin (d)	Tetco WLA /Algonquin (e)	Tennessee Zone 1 to NEGC (f)	Tetco STX /Algonquin (g)	Algonquin @ Lambertville, NJ (h)	Columbia (Maumee/Downington) (i)	Total (j)
	2013-2014 Marketer Reconciliation									
	MDCQ by Month									
(1)	Nov-13	30		194,970	254,970	284,970	110,940	70,710	4,920	921,480
(2)	Dec-13	31		201,500	263,500	294,500	115,227	73,718	5,053	953,498
(3)	Jan-14	31		201,500	263,500	294,500	119,598	82,460	4,991	966,549
(4)	Feb-14	28		182,000	238,000	266,000	107,548	73,080	4,424	871,052
(5)	Mar-14	31		201,469	263,469	294,500	117,893	78,337	4,836	960,504
(6)	Apr-14	30		195,000	255,000	285,000	114,990	77,700	4,620	932,310
(7)	May-14	31		201,500	263,500	294,500	118,296	78,802	4,805	961,403
(8)	Jun-14	30		195,000	255,000	285,000	106,710	61,890	4,590	908,190
(9)	Jul-14	31		201,500	263,500	294,500	110,639	65,441	4,588	940,168
(10)	Aug-14	31		201,500	263,500	294,469	114,142	71,796	4,464	949,871
(11)	Sep-14	30		195,000	255,000	284,970	110,460	69,480	4,320	919,230
(12)	Oct-14	31		201,500	263,500	294,469	114,142	71,796	4,464	949,871
(13)	Total		sum[(1):(12)]	2,372,439	3,102,439	3,467,378	1,360,585	875,210	56,075	11,234,126
	Approved									
(14)	System Average		Dkt 4346 EDA-4	$0.9383	$0.9383	$0.9383	$0.9383	$0.9383	$0.9383	
(15)	Path		Dkt 4346 EDA-4	$0.9245	$1.0264	$1.1663	$1.2195	$0.2744	$0.3702	
(16)	Credit/Surcharge		(14) - (15)	$0.0138	($0.0881)	($0.2280)	($0.2812)	$0.6639	$0.5681	
	Revised									
(17)	System Average			$0.9359	$0.9359	$0.9359	$0.9359	$0.9359	$0.9359	
(18)	Path			$0.9253	$1.0272	$1.1502	$1.2203	$0.2744	$0.3768	
(19)	Credit/Surcharge		(17) - (18)	$0.0106	($0.0913)	($0.2143)	($0.2844)	$0.6615	$0.5591	
(20)	Variance- approved Surcharge/Credit vs. Revised Surcharge/Credit		(19) - (16)	($0.0032)	($0.0032)	$0.0137	($0.0032)	($0.0024)	($0.0090)	
(21)	Annual MDCQ		(13)	2,372,439	3,102,439	3,467,378	1,360,585	875,210	56,075	11,234,126
(22)	2012-13 Marketer Reconciliation Adjustment		(20) * (21)	($7,592)	($9,928)	$47,503	($4,354)	($2,101)	($505)	$23,024

2012-13 & 2013-14 Annual Marketer Reconciliation

Line No.	Description (a)	# of days (b)	Reference (c)	Tetco ELA /Algonquin (d)	Tetco WLA /Algonquin (e)	Tennessee Zone 1 to NEGC (f)	Tetco STX /Algonquin (g)	Algonquin @ Lambertville, NJ (h)	Columbia (Maumee/Downington) (i)	Total (j)
	2012-2013 Marketer Reconciliation									
	MDCQ by Month									
(23)	Nov-12	30		184,920	251,310	285,030	84,150	41,640	1,140	848,190
(24)	Dec-12	31		192,200	260,741	294,531	95,356	43,555	961	887,344
(25)	Jan-13	31		193,657	261,020	294,500	99,541	48,174	992	897,884
(26)	Feb-13	28		174,972	235,620	265,972	91,028	43,596	924	812,112
(27)	Mar-13	31		193,719	260,648	294,469	100,440	47,368	1,116	897,760
(28)	Apr-13	30		188,070	252,360	285,000	97,860	46,230	1,080	870,600
(29)	May-13	31		194,432	260,741	294,500	101,742	48,112	1,116	900,643
(30)	Jun-13	30		188,280	252,510	284,970	99,540	47,400	1,020	873,720
(31)	Jul-13	31		194,463	261,020	294,469	102,734	48,577	1,023	902,286
(32)	Aug-13	31		194,401	261,175	294,469	103,044	48,608	961	902,658
(33)	Sep-13	30		188,580	252,900	285,000	101,280	48,840	900	877,500
(34)	Oct-13	31		195,052	261,423	294,500	105,679	52,018	868	909,540
(35)	Total		sum[(23):(34)]	2,282,746	3,071,468	3,467,410	1,182,394	564,118	12,101	10,580,237
	Approved									
(36)	System Average		Dkt 4283 EDA-4	$0.8601	$0.8601	$0.8601	$0.8601	$0.8601	$0.8601	
(37)	Path		Dkt 4283 EDA-4	$1.0184	$1.1297	$1.1467	$1.3359	$0.5559	$0.5331	
(38)	Credit/Surcharge		(36) - (37)	($0.1583)	($0.2696)	($0.2866)	($0.4758)	$0.3042	$0.3270	
	Revised									
(39)	System Average			$0.8620	$0.8620	$0.8620	$0.8620	$0.8620	$0.8620	
(40)	Path			$1.0191	$1.1304	$1.1467	$1.3364	$0.5705	$0.5400	
(41)	Credit/Surcharge		(39) - (40)	($0.1571)	($0.2684)	($0.2847)	($0.4744)	$0.2915	$0.3220	
(42)	Variance- approved Surcharge/Credit vs. Revised Surcharge/Credit		(41) - (38)	$0.0012	$0.0012	$0.0019	$0.0014	($0.0127)	($0.0050)	
(43)	Annual MDCQ		(35)	2,282,746	3,071,468	3,467,410	1,182,394	564,118	12,101	10,580,237
(44)	Updated 2012-13 Marketer Reconciliation Adjustment		(42) * (43)	$2,739	$3,686	$6,588	$1,655	($7,164)	($61)	$7,444
(45)	Under/(Over)-collection for 2010-11 & 2011-12 Marketer Reconciliation									$86,528
(46)	Total 2010-13 amount subject to Marketer Reconciliation		(44) + (45)							$93,972
(47)	Already Collected from Marketers									$36,879
(48)	Under/(Over)-collections for 2011-12 & 2012-13 Marketer Reconciliation		(46) - (48)							$57,093
(49)	**Total 2012-13 & 2013-14 Marketer Reconciliation- Surcharge to Marketers**		(22) + (48)							**$80,117**
(50)	**Total 2012-13 & 2013-14 Marketer Reconciliation- Surcharge credited to Firm Sales Customers**		- (49)							**($80,117)**

Line (45) Docket No. 4436 Attachment AEL-7, Line 49, filed on September 3, 2013

Line (47) Nov'13-July'14 as reflected in GCR Monthly Deferred Report filed on August 20, 2014 Schedule 2, Line 135. Aug'14-Oct'14 are projected collections.